

NEW UNITS OF INSTRUCTION AT PUBLIC COMMUNITY COLLEGES

Submitted for: Action.

Summary: This item requests approval of 14 new associate degree programs to be offered at 12 community colleges.

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

Danville Area Community College

- Associate of Applied Science in Automotive Collision Repair

Frontier Community College

- Associate of Applied Science in Information Systems Support

John Wood Community College

- Associate of Applied Science in Business Leadership

Kaskaskia College

- Associate of Engineering Science

Lewis and Clark Community College

- Associate of Applied Science in Architectural Technology

McHenry County College

- Associate of Applied Science in Occupational Therapy Assistant

Oakton Community College

- Associate of Applied Science in Computer Networking and Systems

Olive-Harvey College

- Associate of Applied Science in Human Development and Family Studies

South Suburban College

- Associate of Applied Science in Echocardiography
- Associate of Applied Science in Nanoscience Technology

Triton College

- Associate of Applied Science in Hospitality Industry Administration: Baking and Pastry

Wabash Valley College

- Associate of Applied Science in Energy Technology

Waubonsee Community College

- Associate of Applied Science in Health Information Technology
- Associate of Applied Science in Industrial Technology

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.

Danville Area Community College
2000 East Main Street
Danville, Illinois 61832-5199
President: Dr. Alice Marie Jacobs

Proposed Program Title: Associate of Applied Science in Automotive Collision Repair

Projected Enrollments: Danville Area Community College anticipates an enrollment of 12 full-time and six part-time students the first year, increasing to 20 full-time and 14 part-time students by the third year.

Danville Area Community College (the College) is seeking approval to offer a 61 semester credit hour Associate of Applied Science (A.A.S.) degree in Automotive Collision Repair. The program will prepare admitted students for entry-level employment as auto body technicians.

The curriculum for the program consists of 16 credit hours of required general education and 45 credit hours of required career and technical education. The career and technical component of the curriculum includes instruction in fundamentals of collision repair, shop orientation, nonstructural analysis, damage repair, collision repair electrical analysis, principles of air conditioning, metal inert gas (MIG) welding, refinishing, collision repair mechanical analysis, braking systems, structural analysis, custom refinishing techniques, and a required work-based learning experience. The curriculum was developed using Inter-Industry Conference on Auto Collision Repair (I-CAR) standards for automotive collision repair. The program will prepare graduates for Automotive Service Excellence (ASE) certification through the National Automotive Technician's Education Foundation (NATEF). The program also meets NATEF educational program standards for ASE accreditation. Assessment of student learning outcomes in the program will be accomplished through evaluation of the student's performance during the work-based learning experience performed by the supervising employer and program faculty.

Grades and grade point averages (GPAs) of students in the program, as well as pass rates of graduates in the certification examinations, will be additional assessment measures.

The College currently offers several general education and career and technical education courses required in the proposed degree for dual credit to local secondary students through the Partnership for College and Career Success consortia. This arrangement provides opportunities for high school students to earn credit hours towards their high school graduation requirements and completion of the A.A.S. degree. The College also offers a related Automotive Collision Repair Certificate which is expected to prepare students for admission to the proposed degree program. The program will provide those students, as well as technicians already in the field, with advanced educational opportunities.

Labor market information provided by the College supports the interest in and the need for a two-year degree program in this field of automotive body repair. According to the Illinois Department of Employment Security (IDES), employment of automotive body repairers is expected to increase by about 14 percent between 2006 and 2016 statewide. Furthermore, local employers have expressed a significant need for educated and skilled technicians beyond what existing educational programs currently supply.

No new resources are needed to establish this program. Facilities, faculty, and equipment are already in place to support this program and the existing certificate program in automotive body repair. Faculty for the program possesses an I-CAR certification in automotive collision repair, six years related occupational experience, and six years of teaching experience.

Staff Conclusion. Danville Area 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. Administrative Code 1050.30 and the Illinois Board of Higher Education policies pertaining to assessment and accreditation or licensure.

Frontier Community College
2 Frontier Drive
Fairfield, Illinois 62837-9701
President: Dr. Tim Taylor

Proposed Program Title: Associate of Applied Science in Information Systems Support

Projected Enrollments: Frontier Community College anticipates an enrollment of ten full-time students and ten part-time students the first year, increasing to 25 full-time students and 25 part-time students by the third year.

Frontier Community College (the College), one of the four Illinois Eastern Community Colleges campuses, is seeking approval to offer a 64 semester credit hour Associate of Applied Science (A.A.S.) degree in Information Systems Support (ISS). The program will prepare individuals for entry-level employment in information technology support positions.

The curriculum for the proposed program consists of 15 credit hours of required general education and 49 credit hours of required career and technical education. The career and technical component of the curriculum includes instruction in computer hardware fundamentals, computer support fundamentals, word processing/spreadsheet/database support, client operating systems, productivity applications, applications support, computer support techniques, network systems support, A+ Certification preparation, Microsoft Certified Desktop Support Technician (MCDST) certification preparation, Net+ certification preparation, and a required work-based learning experience in information systems support. The proposed A.A.S. degree program is designed to meet articulation requirements for related baccalaureate programs at public four-year universities. Credits for the A.A.S. in Information Systems Support will be transferrable to Southern Illinois University Carbondale, Southern Illinois University Edwardsville, Eastern Illinois University, and the University of Southern Indiana's related baccalaureate degree programs.

Assessment of student learning outcomes in the proposed program will be conducted by program faculty through an ePortfolio assessment of the student's educational progress throughout the course of study, and an evaluation of the student's performance during the work-based learning experience. The proposed degree prepares students for industry credentialing exams including MCDST, Microsoft Application Specialist (MCAS), CompTIA A+ certification, and CompTIA Network+ certification. Student pass rates in the certification examinations will constitute another indication of student success in the program, as well as the student's grade point average (GPA) and course grades.

Labor market information provided by the College supports the interest in and the need for a formalized training program in information systems support. Locally, employers often train their own staff for employment. The training may not offer the same industry credentialing as vendor-sponsored curricula, nor, does it provide any portable educational experience or credentialing for existing workers. The proposed program will offer that opportunity to existing information technology (IT) professionals, as well as offer educational pathways for individuals seeking entry-level employment in the field. According to the Illinois Department of Employment Security (IDES), employment of computer support specialists is projected to increase by nearly 18 percent statewide between 2006 and 2016. Employment growth in the College's district is also projected to grow between 2006 and 2016 by 4.5 percent.

The College currently offers a related A.A.S degree in Information Technology Management. Facilities, faculty, and most equipment are in place, and they are sufficient to support the proposed program. While the A.A.S. in Information Technology Management program has been successful, it has needed revision to better serve students and local employers. It is expected by the College that the proposed degree program will eventually replace this program. Two existing part-time faculty will support the proposed program. They possess a Bachelor's degree in Information Technology and have a minimum of five years of related occupational experience and two years of teaching experience. The College has also proposed to offer two related certificate programs in information systems support. It has estimated an additional cost of implementing these new programs at \$15,095 the first year, \$14,265 the second year, and \$15,240 the third year.

Staff Conclusion. Frontier 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. Administrative Code 1050.30 and the Illinois Board of Higher Education policies pertaining to assessment and accreditation or licensure.

John Wood Community College
1301 South 48th Street
Quincy, Illinois 62305-8736
President: Dr. Thomas D. Klincar

Proposed Program Title: Associate of Applied Science in Business Leadership

Projected Enrollments: John Wood Community College anticipates an enrollment of eight part-time students during the first year, increasing to 15 part-time students by the third year.

John Wood Community College (the College) is seeking approval to offer a 64 semester credit hour Associate of Applied Science (A.A.S.) degree in Business Leadership. This program was developed in partnership with Dot Foods, Inc., a local employer, to meet the needs of their employees who are currently looking for advancement opportunities into supervisory and management positions.

The program is based on existing training currently conducted by the employer and has been expanded to include additional and more formalized business theory and practice training. The program's curriculum includes 24 credit hours of required general education and 40 credit hours of career and technical education. The career and technical component of the curriculum includes instruction in word processing, database administration, spreadsheet analysis, presentation software, business statistics, economics, finance, principles of organization and management, career management, supply chain management, quality assurance, lean manufacturing, supervisory techniques, legal/ethical issues in business, leadership development, and one related technical elective. The proposed degree curriculum is also designed to articulate with Western Illinois University's Bachelor degree program in Business. Assessment of student learning outcomes will be achieved through the evaluation of a comprehensive final project. The student's grade point average (GPA) and course grades will be additional measures of the success of the program.

Labor market information provided by the College supports the interest in and the need for a formalized educational program in this field of study. The College has provided professional development training to local employers for many years. The proposed program will serve to formalize this training and provide additional educational opportunities for the existing labor force within the College's district. According to the Illinois Department of Employment Security (IDES), employment of transportation, storage, and distribution managers will grow both statewide and within the College's district between 2006 and 2016.

Five existing full-time faculty members will support this program. They hold a Master's degree in Business and teach business courses, and hold at least a Bachelor's degree in Computer Science to teach information technology (IT) courses, two years of related occupational experience, and two years of teaching experience. Adequate facilities and equipment for the program are already in place at the College. The College has also proposed a related certificate program that will train students who will apply to this program after their graduation. The costs of implementing the program are projected to be \$1,496 during the first year, and \$400 per year during the second and third years.

Staff Conclusion. John Wood 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. Administrative Code 1050.30 and the Illinois Board of Higher Education policies pertaining to assessment and accreditation or licensure.

Kaskaskia College
27210 College Road
Centralia, Illinois 62801-9285
President: Dr. James C. Underwood

Proposed Program Title: Associate of Engineering Science

Projected Enrollments: Kaskaskia College anticipates enrolling 15 - 17 full-time students in Fall 2010 and approximately the same number in each of the following two years.

Kaskaskia College (the College) is seeking permanent approval to offer a 64 credit hour Associate of Engineering Science (A.E.S.) program. The proposed program will prepare students planning to obtain a baccalaureate degree in related engineering science fields, or enter the workforce with a potential for earning a baccalaureate degree in the future.

The curriculum of the program is comprised of 55 credit hours in general education courses (including Chemistry, Calculus I, II, and III, Physics I and II, and Differential Equations), and nine credit hours in required program courses as outlined on the Illinois Articulation Initiative (IAI) Engineering Major Panel's website, which lists the prerequisite, general education, and major course recommendations. The core curriculum has also been developed in cooperation with the engineering divisions at transfer institutions such as Southern Illinois University Edwardsville and the University of Illinois at Urbana-Champaign. This program is designed for those that will major in mechanical, civil, manufacturing, industrial, electrical, and computer engineering.

Assessment of student learning outcomes for the A.E.S. program will be completed by the College every three years to measure student success and outcome attainment, as well as by the Illinois Community College Board's (ICCB) program review every five years. Likewise, all A.E.S. program courses will be reviewed every semester to ensure that all courses are fulfilling the expected course outcomes. Student pass rates in these certification examinations will constitute another indication of student success in the program, as well as the student's grade point average (GPA) and course grades.

Overall future employment opportunity for engineers is good, with some specialties in higher demand than others. Industries that employ a lot of engineers include manufacturing, office buildings, laboratories, industrial plants, transportation, construction sites, oil and gas exploration and production sites, alternate energy research and development, and public facilities, including roads, bridges and water, and pollution control systems. The Illinois Department of Employment Security's (IDES) occupational projections for engineers between 2006 and 2016 are strong, but vary from field to field. The employment projections include over two percent for electrical/electronic engineers and mechanical engineers, 20 percent for civil engineers, 28.5 percent for industrial engineers, and 51 percent for computer engineers. It is expected that as graduates of this program transfer to four-year programs in engineering, they will become more familiar with the employment outlook for different specialties in engineering, and they will choose their majors in engineering fields accordingly. Regardless of the field of engineering

selected, occupational demand for engineers is projected to be above the average for all occupations in Illinois.

All classroom facilities and other needed facilities for the program are adequate and in place to support the proposed program. Lab space for the general education courses and the engineering courses include a recently renovated and state-of-the-art chemistry and inorganic chemistry labs. A computer classroom has been dedicated for the mathematics and pre-engineering courses, and the engineering drawing course will be taught in a fully operational and up-to-date AutoCad drafting lab. The College has budgeted \$4,000 for new costs associated with offering instruction for the program during the first year and to purchase MathCad for Engineering Students software. An additional \$3,500 per year has been budgeted for the next two years for other associated needs of the program. Instructors for the engineering core courses include six full-time, qualified faculty and three adjunct faculty members. These existing faculty members will be used for the delivery of courses, and it will not be necessary to hire additional faculty for the program.

Staff Conclusion. Kaskaskia 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. Administrative Code 1050.30 and the Illinois Board of Higher Education policies pertaining to assessment and accreditation or licensure.

Lewis and Clark Community College
5800 Godfrey Road
Godfrey, Illinois 62035-2466
President: Dr. Dale T. Chapman

Proposed Program Title: Associate of Applied Science in Architectural Technology

Projected Enrollments: Lewis and Clark Community College anticipates an enrollment of ten full-time students and five part-time students the first year, increasing to 20 full-time students and 15 part-time students by the third year.

Lewis and Clark Community College (the College) is seeking approval to offer a 66 semester credit hour Associate of Applied Science (A.A.S.) degree in Architectural Technology. The program will prepare admitted students for employment as architectural technologists, including drafters, architectural technicians, and construction-design technicians with a focus on green building designs.

The curriculum for the proposed program was developed in partnership with the University of Illinois at Urbana-Champaign's (the University) School of Architecture to provide graduates of this program with employment skills at the drafter/technician level, and the option to transfer into the architecture baccalaureate degree programs at the University or similar programs at other institutions. The curriculum consists of 18 credit hours of required general education, and 48 credit hours of required career and technical education courses. The general education component includes 12 credit hours of coursework transferrable to the baccalaureate level. In addition, four of the general education courses can be taken for dual credits through the district's local secondary Partnership for College and Career Success consortium. This arrangement will provide opportunities for local secondary students to earn credit hours towards their high school graduation requirements and completion of the architectural technology associate degree program. The career and technical component of the curriculum is comprised of instruction in introductory architecture, architectural graphics, architectural rendering, introductory and

advanced architectural design, Revit architecture, architectural building systems, basic and advanced computer-aided design, construction of buildings, GIS/GPS mapping, solar design and installation, solar hot water technology, grid-tied solar design, and a required architectural design and graphics work-based learning experience. The curriculum was developed using guidelines of the U.S. Green Building Council that offers an optional credential, the Leadership in Energy and Environmental Design (LEED) certification for professionals who have work experience in the field of green building design/construction.

Assessment of student learning outcomes in this program will be achieved through evaluation of the student's performance during the work-based learning experience by the student's work-site supervisor and program faculty members. Student pass rates in the certification examinations will constitute another indication of student success of the program, as well as the student's grade point average (GPA) and course grades.

Labor market information provided by the College supports the interest in and the need for a two-year architectural technology degree program which focuses on green-building design and environmental sustainability. Nationally, the need for green jobs and their significance to improving environmental condition are one of the priorities of the Obama Administration. Funding is included in the American Recovery and Reinvestment Act of 2009. The Obama Administration has identified community colleges' contributions to be critical to the recovery of the national economy. The Illinois Department of Employment Security (IDES) has not published on its website any employment projection for architectural technicians and technologists. Additionally, the College has worked with the University of Illinois at Chicago (the University) to develop this degree so that it prepares its graduates for employment in the green industry and also to articulate with the University's baccalaureate degree programs.

No new resources are needed to implement this program. Three existing full-time and three part-time faculty members will support this program during the first year of implementation. The existing faculty members at the College are qualified to teach courses for the program, and they possess a minimum of a Bachelor's degree in Architecture or a functional equivalent, have a minimum of five years experience in the related occupations, and a minimum of five years of teaching experience. Facilities, equipment, and software for supporting this program are sufficient and are currently in place.

Staff Conclusion. Lewis and Clark 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. Administrative Code 1050.30 and the Illinois Board of Higher Education policies pertaining to assessment and accreditation or licensure.

McHenry County College
8900 U.S. Highway 14
Crystal Lake, Illinois 60012-2761
Interim President: Ms. Kathleen Plinske

Proposed Program Title: Associate of Applied Science in Occupational Therapy Assistant

Projected Enrollments: McHenry County College anticipates an enrollment of 16 full-time students each year during the first three years of the program.

McHenry County College (the College) is seeking approval to offer a 72 semester credit hour Associate of Applied Science (A.A.S.) degree in Occupational Therapy Assistant. The program will prepare admitted individuals for employment as occupational therapy assistants to licensed occupational therapists.

The curriculum of the proposed program consists of 23 credit hours of required general education and 49 credit hours of required career and technical education. The career and technical component of the curriculum includes instruction in foundations of occupational therapy, introductory through advanced levels of therapeutic methods, psychosocial rehabilitation theory and practice, physical theory and rehabilitation theory and practice, occupations across the lifespan, dynamics of human movement, conditions disrupting participation, professional analysis in practice, health services management, information literacy in health care, and a required work-based learning experience in occupational therapy.

The curriculum was designed according to theory and skill standards of the American Occupational Therapy Association (AOTA) for occupational therapy assistant programs. The program will prepare graduates for the Certified Occupational Therapy Assistant (COTA) examination through the National Board for Certification in Occupational Therapy (NBCOT). Certification, a requirement for entry-level employment in the state, is a prerequisite for licensure through the Illinois Department of Finance and Professional Regulation (IDFPR). The College has also sought articulation of the proposed program with National Louis University, Southern Illinois University Carbondale, and Northern Illinois University in programs related to health care management and health and human sciences.

Assessment of student learning outcomes in the program will take place during the work-based learning experience through observation and evaluation of the student's performance by employers and program faculty. Student pass rates in the certification and licensure examinations will constitute indications of student success in the program, as well as the student's grade point average (GPA) and course grades in the program.

Labor market information provided by the College supports the interest in and the need for a two-year educational program in this field of study within the College's district. According to the Illinois Department of Employment Security (IDES), employment of occupational therapy assistants is projected to increase by slightly over 25 percent between 2006 and 2016 statewide. Local employers have expressed a significant need for the proposed program as an alternative to hiring multiple full-time licensed occupational therapists. Furthermore, recent change in the entry-level educational requirements for occupational therapists to a Master's degree has made earning an Associate degree in Occupational Therapy Assistant program a viable option for many students.

The program will utilize one existing full-time faculty member, one new full-time faculty member, and two new part-time faculty members during the first year. The faculty will possess a minimum of a Bachelor of Science (B.S.) in Occupational Therapy or have certification as occupational therapy assistants with five years related teaching experience in the field. However, a Master's degree in Occupational Therapy with at least one year of related work experience and one year teaching experience is preferred. Classroom facilities for the program are in place to adequately support the program. Laboratory facilities and much of the required equipment will be utilized through the College's work-based learning facilities, in addition to equipment at local partner hospitals and clinics. It is estimated that the cost of implementing this program will be \$90,600 the first year, \$83,900 the second year, and \$83,000 the third year.

Staff Conclusion. McHenry County 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. Administrative Code 1050.30 and the Illinois Board of Higher Education policies pertaining to assessment and accreditation or licensure.

Oakton Community College
1600 East Golf Road
Des Plaines, Illinois 60016-1268
President: Dr. Margaret Lee

Proposed Program Title: Associate of Applied Science in Computer Networking and Systems

Projected Enrollments: Oakton Community College anticipates an enrollment of five part-time students the first year, increasing to approximately ten part-time students by the third year. As a fast growing industry, the needs for green jobs in the future are difficult to estimate at this time. It is possible that enrollment in the program may be significantly greater than the projections when the program is implemented.

Oakton Community College (the College) is seeking approval to offer a 60 semester credit hour Associate of Applied Science (A.A.S.) degree in Computer Networking and Systems. The program will prepare admitted students for employment as network technicians and network administrators.

The curriculum for the proposed program consists of 19 credit hours of required general education, 37 credit hours of required career and technical education, and four credit hours of related technical electives. The career and technical component of the curriculum includes instruction in introductory computer information systems, networking essentials, principles of information security, Microsoft Windows Desktop Operation Systems, Microsoft Windows Server Operation Systems, Microsoft Implementing and Maintaining Windows Network Infrastructure, Microsoft Planning and Optimizing Windows Network Infrastructure, Microsoft Windows Desktop Technician, Cisco Networking Basics, and Cisco Routers and Routing Basics. The curriculum was developed according to standards established by Microsoft Corporation and Cisco Corporation for certification in several applications areas. The College is currently a certified Microsoft IT Training Academy and a Cisco Networking Academy. Graduates of this program will be eligible for optional credentialing through Microsoft in Windows Enterprise Administration, Windows Desktop Support, Microsoft Certified Technical Support, and Microsoft Certified IT Professional, to name a few.

Assessment of student learning outcomes in the program will be achieved through evaluation of a comprehensive final exam and project completed towards the end of the student's program. Student pass rates in the certification examinations will constitute additional indication of student success in the program, as well as the student's grade point average (GPA) and course grades.

Labor market information provided by the College supports the interest in and the need for a two-year degree program in computer networking and systems. According to the Illinois Department of Employment Security (IDES), growth in the employment of network systems workers and network administrators is expected to increase by approximately 29 percent and 49 percent respectively in the state between 2006 and 2016. The College currently offers two related certificate programs which enroll approximately 50 students each fall. The College has designed the proposed degree so that the majority of coursework offered for the certificate programs will apply towards completion of the program.

Sufficient facilities and equipment to support this program are already in place. Two existing full-time, four existing part-time, and two new part-time faculty members will support this program. Each qualified faculty member for the proposed program will hold at least a Bachelor's degree in Computer Networking and related disciplines and the appropriate industry certifications, at least two years of related occupational experience, as well as at least one year of teaching experience. Costs of implementing this program will be approximately \$15,600 the first year, \$16,300 the second year, and \$17,100 the third year, in addition to existing resources.

Staff Conclusion. Oakton 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. Administrative Code 1050.30 and the Illinois Board of Higher Education policies pertaining to assessment and accreditation or licensure.

Olive-Harvey College
10001 South Woodlawn Avenue
Chicago, Illinois 60628-1696
President: Dr. Clyde El-Amin

Proposed Program Title: Associate of Applied Science in Human Development and Family Studies

Projected Enrollments: Olive-Harvey College anticipates an enrollment of five full-time students and ten part-time students the first year, increasing to 25 full-time students and 25 part-time students by the third year of operation.

Olive-Harvey College (the College), one of the City Colleges of Chicago, is seeking approval to offer a 60 semester credit hour Associate of Applied Science (A.A.S.) degree in Human Development and Family Studies. The program will prepare admitted students for employment as social service technicians in a variety of social service organizations that focus on family, child, geriatric research, and support services. The proposed curriculum was also designed for graduates of the program who wish to transfer to four-year institutions, particularly the University of Chicago and Northern Illinois University, in several human development-related baccalaureate degree programs.

The curriculum for the program consists of 20 credit hours of required general education, 34 credit hours of required career and technical education, and six credit hours of related technical electives. The career and technical education component of the curriculum includes instruction in the study of society, social psychology, introductory and intermediate human growth and development, human development and sexuality, intimate relationships, family life education, family development, cross cultural perspectives, and a required work-based learning experience in a human development and family service organizations. Assessment of student learning outcomes will take place during the practical learning experience by program faculty.

Student performance in course examinations and their grade point averages (GPA) will be additional means of assessing the outcomes of what students learned in this program.

Labor market information provided by the College supports the interest in and the need for a two-year program in human development and family studies. According to the Illinois Department of Employment Security (IDES), employment of human services workers is projected to increase by 34 percent between 2006 and 2016 statewide.

There are sufficient qualified faculty members at the College to support the proposed program. Each faculty member who will support this program must hold a Master's degree in Child, Human, or Geriatric Development and must be a fully Certified Family Life Educator (CFLE) by the National Council on Family Relations (NCFR). All facilities and equipment for this program are in place to adequately support the curriculum. As a result, no new additional resources are anticipated in the near future to implement this program.

Staff Conclusion. Olive-Harvey 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. Administrative Code 1050.30 and the Illinois Board of Higher Education policies pertaining to assessment and accreditation or licensure.

South Suburban College
15800 South State Street
South Holland, Illinois 60473-1262
President: Mr. George Dammer

Proposed Program Title: Associate of Applied Science in Echocardiography

Projected Enrollments: South Suburban College anticipates an enrollment of 25 part-time students the first year, increasing to 55 part-time students by the third year.

South Suburban College (the College) is seeking approval to offer a 65 semester credit hour Associate of Applied Science (A.A.S.) degree in Echocardiography. The curriculum will prepare individuals admitted to the program for entry-level employment as echocardiography technicians, also known as cardiac technicians.

The curriculum for the program consists of 25 credit hours of required general education and 40 credit hours of required career and technical education. The career and technical component of the curriculum includes instruction in patient care skills, echocardiography fundamentals, echo imaging, basic and advanced laboratory, echo anatomy and physiology, echo physics, picture, archiving and communication systems, and a required clinical practicum in echocardiography. The curriculum was developed according to standards for cardiovascular technology programs by the Joint Review Committee on Education in Cardiovascular Technology of the Commission on Accreditation of Allied Health Professions (CAAHEP). The program will prepare graduates for the required licensure through the Illinois Department of Finance and Professional Regulation (IDFPR) upon passage of an industry-based credentialing examination. Certification in the field is available through two industry organizations: Cardiovascular Credentialing International (CCI) and the American Registry of Diagnostic Medical Sonographers (ARDMS). CCI awards four appropriate certifications in Certified Cardiographic Technician (CCT), Registered Cardiac Sonographer (RCS), Registered Vascular Specialist (RVS), and Registered Cardiovascular Invasive Specialist (RCIS). The ARDMS

awards two appropriate certifications: the Registered Diagnostic Cardiac Sonographer (RDCS) and the Registered Vascular Technologist (RVT).

Assessment of student learning outcomes will be achieved through an evaluation of the student's performance during their clinical practicum experience and by completion of a certification practice exam. Student pass rates in the certification and the licensure examinations will constitute additional indication of student success in the program, as well as the student's grade point average (GPA) and course grades.

Labor market information provided by the College supports the interest in and the need for a training program in this specialized field of medical imaging. According to the Illinois Department of Employment Security (IDES), growth in the employment of cardiovascular technicians is projected to increase by 26 percent between 2006 and 2016 statewide. Locally, there has been a significant interest by district and regional health service providers in community colleges offering this program or similar programs. Once approved, the College plans to provide this program through cooperative agreements in the neighboring districts of Moraine Valley Community College, Joliet Junior College, and Prairie State College.

No new faculty will be needed to establish this program. The program will be supported by existing faculty at the College. Echocardiography instructors for this program hold a Master's degree in Cardiovascular Sonography or a closely related field, have a minimum of five years related occupational experience, and one to two years of teaching experience. All echocardiography faculty members must also hold the appropriate licensure and certification credentials to teach in the program.

Costs for implementing this program will be approximately \$57,200 the first year, \$27,700 the second year, and \$12,700 the third year. Existing facilities and equipment at the College are adequate to support this program.

Staff Conclusion. South Suburban 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. Administrative Code 1050.30 and the Illinois Board of Higher Education policies pertaining to assessment and accreditation or licensure.

Proposed Program Title: Associate of Applied Science in Nanoscience Technology

Projected Enrollments: South Suburban College anticipates an enrollment of 35 full-time students and five part-time students each year during the first three years of the program's operation.

South Suburban College (the College) is seeking approval to offer a 67 semester credit hour Associate of Applied Science (A.A.S.) degree in Nanoscience Technology. According to Brookstein and Darrell in *Nanotech Fortunes*, nanotechnology, the enabling science and technology of manipulating atoms and molecules at the "micro, micro" or nanometer scale to create and manufacture new materials and devices, is emerging as an advanced field of scientific study. This program will prepare admitted individuals for entry-level employment as nanoscience technicians. Students in the proposed program will be prepared to work as technicians in a variety of manufacturing, information technology, health science, and related industries that utilize this new and fast growing technology.

The curriculum for the program consists of 36 credit hours of required general education and 31 credit hours of required career and technical education. The general education core includes two physics courses: mechanics and heat, and sound/light/electricity, and one chemistry course that serves as a foundation for the remainder of the nanoscience technology coursework. Other general education courses include English composition, speech communications, biology, college algebra and statistics, a humanities course, and a social science course. All general education courses are transferable to four-year institutions for baccalaureate degrees. The career and technical component of the curriculum includes instruction in introductory and advanced levels of nanoscience technology, nano electronics, nano courses in biotechnology, nano materials, nano manufacturing, nano techniques, and a required work-based learning experience with an employer that uses nanoscience technology. The curriculum was developed using a model developed by the University of Pittsburgh, a leading university in developing nanoscience technology programs.

Assessment of student learning outcomes in the program will be accomplished through an evaluation of the student's performance during the work-based learning component of the program. The evaluation will be conducted by the employing supervisor and program faculty. The student's grade point average (GPA) and course grades will be additional measures of the success of this program.

Labor market information provided by the College supports the interest in and the need for skilled technicians in this new and fast emerging field of study. The Illinois Department of Employment Security (IDES) has not published any occupational projections for employment in nanoscience technology because this is a relatively new field of study and occupation. South Suburban College was awarded a grant through NanoLink, a national nanoscience organization funded by the National Science Foundation to assist postsecondary institutions in developing nanoscience curricula. Currently, only Harper College offers a similar program in nanoscience technology in the state. The two Colleges have collaborated to share laboratory space and other resources where possible.

Three existing part-time faculty will be required for instruction of the nanoscience technology courses, but no new faculty will be required for the program overall because there are sufficient qualified existing faculty at the College to support the program. The nanoscience technology faculty will hold a Master's degree in an appropriate science-related field, a minimum of three years of occupational experience, and five years of teaching experience. In addition, nanoscience technology faculty must have completed a series of topical workshops sponsored by the University of Pittsburgh. It is estimated that the cost of implementing this program will be \$400,200 the first year, \$275,200 the second year, and \$150,200 the third year. These expenses include appropriate facilities and equipment over the first three years after the program is approved.

Staff Conclusion. South Suburban 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. Administrative Code 1050.30 and the Illinois Board of Higher Education policies pertaining to assessment and accreditation or licensure.

Triton College
2000 Fifth Avenue
River Grove, Illinois 60171-1995
President: Ms. Patricia Granados

Proposed Program Title: Associate of Applied Science in Hospitality Industry Administration: Baking and Pastry

Projected Enrollments: Triton College anticipates an enrollment of ten full-time students and 15 part-time students during the first year of the program, increasing to 25 full-time students and 30 part-time students by the third year of operation.

Triton College (the College) is seeking approval to offer a 66 semester credit hour Associate of Applied Science (A.A.S.) degree in Hospitality Industry Administration: Baking and Pastry. The program will prepare admitted individuals for self-employment as pastry chefs or employment at hotels, restaurants, commercial and retail bakeries, and specialty bakeries.

The curriculum for the program consists of 15 credit hours of required general education and 51 credit hours of required career and technical education. The career and technical component of the curriculum includes instruction in introductory hospitality, food sanitation and safety, nutrition, culinary mathematics, food preparation essentials and theory, food and beverage purchasing/cost control, introductory and advanced cake and pastry baking, cake and pastry decoration, artisan breads, chocolate, laminated dough, specialty baking and pastry, retail bakery management, catering management, hospitality marketing and supervision, and a required work-based learning experience in baking. The College currently offers a related baking certificate, which articulates well into the proposed degree program, and it provides an opportunity for certificate graduates to seek more advanced education and skill training. To facilitate the transfer process from the certificate to the Associate degree, four courses within the existing certificate program and the proposed A.A.S. degree program can be taken for dual credit in local secondary school districts. This plan allows high school students to earn credits towards their high school graduation requirements and towards the completion of certificate and the Associate degree programs at the College.

Assessment of student learning outcomes will be achieved primarily through evaluation of the student's performance during the work-based learning component by program faculty and their work site supervisors, as well as through the use of an industry-based skills checklist the students must complete over the course of their study. The checklists will be reviewed by the program faculty. Also, the assessment will be achieved through an evaluation of the student's performance during the clinical practicum experience and by completion of a certification practice exam. Student pass rates in the certification examinations will constitute additional indication of student success in the program, as well as the student's grade point average (GPA) and course grades.

Labor market information provided by the College supports the interest in and the need for a two-year training program in this field of study. According to the Illinois Department of Employment Security (IDES) the growth in employment of bakers is projected to grow about 11 percent between 2006 and 2016 statewide. Furthermore, the College indicates that nine of the 28 graduating students in the last eight years of their certificate program planned to transfer to complete their A.A.S. degree. Based on a survey of existing students enrolled in the certificate program and recent graduates, the College found a significant interest in the proposed Associate degree program. In addition, the College has collaborated with Roosevelt University and Kendall College for the proposed program to articulate into their related baccalaureate programs in the culinary discipline.

Facilities and equipment for this program are already in place to adequately support the proposed program, as the College currently maintains a working bakery for its existing culinary arts and baking programs. Some minor renovations will be completed, and several pieces of new equipment are planned for upgrading during the next three years. One existing full-time and four existing part-time faculty will be required during the first year of the program. Faculty members for the program will hold at least an Associate degree in Culinary Arts or Baking, have five years of related occupational experience, and five years of teaching experience. In addition, full-time faculty will have earned the designation of Executive Pastry Chef. It is estimated that the total cost for implementing the program will be \$78,560 the first year, \$115,600 the second year, and \$104,700 the third year. The higher second and third year costs reflect the addition of a full-time faculty member and a part-time faculty member to manage increases in enrollment, along with the cost of facility and equipment upgrades during those years.

Staff Conclusion. Triton 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. Administrative Code 1050.30 and the Illinois Board of Higher Education policies pertaining to assessment and accreditation or licensure.

Wabash Valley College
2200 College Drive
Mt. Carmel, Illinois 62863-2699
President: Mr. Matt Fowler

Proposed Program Title: Associate of Applied Science in Energy Technology

Projected Enrollments: Wabash Valley College anticipates an enrollment of 15 full-time students and 15 part-time students the first year, increasing to 25 full-time students and 25 part-time students by the third year of operation.

Wabash Valley College (the College), one of the four Illinois Eastern Community Colleges, is seeking approval to offer a 68 semester credit hour Associate of Applied Science (A.A.S.) degree in Energy Technology. This program will prepare admitted individuals for employment in a variety of occupations focusing on renewable/reusable energy, commonly referred to as green jobs.

The curriculum for the program consists of 28 credit hours of general education and 40 credit hours of required career and technical education. The career and technical component of the curriculum includes instruction in introductory energy, introductory biofuels, alternative fuel production, effects of alternative fuels, fossil fuel technology, renewable fuels, energy policies, energy efficiency and comparison, industrial electricity, P-Tech quality control, industrial safety,

motors and motor controls, and a work-based learning experience. The program is designed for articulation into baccalaureate degree programs in agriculture and/or engineering at Murray State University, Southern Illinois University Edwardsville, or other institutions offering similar programs in energy technology. Assessment of student learning outcomes will be achieved through faculty evaluation of the student's portfolio containing artifacts of their educational success in meeting comprehensive program objectives. The student's grade point average (GPA) and course grades will be additional measures of the success of the program, as well as the success of graduates who transfer to baccalaureate programs.

Labor market information provided by the College supports the interest in and the need for a formalized educational program in this field of study. The Illinois Department of Employment Security (IDES) does not publish occupational data for energy technologists. It is still an emerging occupation. The College worked with local workforce partners to develop this program because it is related to existing programs in the diesel technology and agriculture fields to meet the increasing demand for knowledge and skills in renewable energy technologies.

The proposed A.A.S. in Energy Technology program will be supported by two existing full-time and two existing part-time faculty. Qualified faculty that will support the program possess a minimum of an Associate degree in Diesel Technology or an agriculture-related technology, at least five years of related occupational experience, and at least three years of teaching experience. The estimated cost to implement this program will be \$23,700 the first year and \$7,500 per year during the second and third years.

Staff Conclusion. Wabash Valley 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. Administrative Code 1050.30 and the Illinois Board of Higher Education policies pertaining to assessment and accreditation or licensure.

Waubonsee Community College
Illinois Route 47 at Waubonsee Drive
Sugar Grove, Illinois 60554-9454
President: Dr. Christine J. Sobek

Proposed Program Title: Associate of Applied Science in Health Information Technology

Projected Enrollments: Waubonsee Community College anticipates an enrollment of five part-time students the first year, increasing to 15 part-time students by the third year.

Waubonsee Community College (the College) is seeking approval to offer a 65 semester credit hour Associate of Applied Science (A.A.S.) degree in Health Information Technology. This program will prepare admitted individuals for entry-level employment as health information technicians (HITs) in a variety of health care service settings.

The proposed A.A.S. in Health Information Technology consists of 16 credit hours of required general education, 43 credit hours of required career and technical education, and six credit hours of related technical electives. The career and technical component of the curriculum includes courses in introductory health information technology, introductory and advanced medical terminology, medical insurance and reimbursement, International Classification of Diseases (ICD) coding, Current Procedural Terminology (CPT) coding, health information processes, pathophysiology and pharmacology for HIT professionals, medical law and ethics, data applications and health care quality, computer software in the office, comprehensive

electronic spreadsheets and database management, a HIT seminar and capstone, and electives from medical office, computer information systems, or business. Assessment of student learning outcomes will take place during the HIT capstone course that includes the Registered Health Information Technician (RHIT) practice exam. The student's grade point average (GPA) and course grades will be additional measures of the success of the program, as well as the success of graduates who take and pass the registered health information examinations.

The curriculum of the program is based on standards established by the Commission on Accreditation for Health Informatics and Information Management (CAHIIM), and it will prepare graduates for the required RHIT credentialing examination, available through the American Health Information Management Association (AHIMA). Program accreditation is required in order for graduates to sit for the RHIT exam. The College is currently in the beginning stages of pursuing accreditation for the program. It plans to submit the application for accreditation after the necessary approvals by the Illinois Community College Board (ICCB) and the Illinois Board of Higher Education (IBHE).

Labor market information provided by the College supports a strong interest in and a need for a two-year degree in health information technology. According to the Illinois Department of Employment Security (IDES), an increase in employment of medical records technicians and technologists is projected at about 21 percent between 2006 and 2016. Currently, the College offers three related certificates that will articulate into the proposed degree program. Across the existing certificates in Health Care Coding, Medical Office, and Medical Transcription, between 18-28 credit hours of coursework will count towards the completion of the proposed degree. It is expected that students enrolled in the certificate programs will apply to the proposed degree program after completion of the certificate programs. Furthermore, at least one career and technical education course and several general education courses will be taken for dual credits through the district's local secondary Partnership for College and Career Success consortium. This arrangement will provide opportunities for local secondary students to earn credit hours towards their high school graduation requirements and completion of the proposed A.A.S. in Health Information Technology.

Existing faculty will be used for the majority of instruction for this program. One full-time and four part-time faculty members are currently available to support other certificate programs related to the proposed program. Minimum qualifications for faculty who will teach technical courses for this program are: a bachelor's degree in a closely related field, two years of teaching experience or working in the occupation, and a valid registered Health Information Technology Certificate. In addition, the College plans to hire one part-time faculty member in the first year of operation. All existing faculty members at the College meet the education, experience, and credentialing requirements necessary for this program's accreditation.

It is estimated that the cost of implementing the proposed program will be \$156,500 the first year and \$42,000 per year during the second and third years. The College received two grants to fund the development of the proposed program: one \$113,000 grant from the United States Department of Education (USDE) for a computer-lab and industry-standard software and a second \$9,350 grant from ICCB through the Programs of Study-Pathway to Results Implementation Grant to develop a health information technology career pathway. The higher first year costs reflect the purchase of grant covered equipment and software.

Staff Conclusion. Waubonsee 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. Administrative Code 1050.30 and the Illinois Board of Higher Education policies pertaining to assessment and accreditation or licensure.

Proposed Program Title: Associate of Applied Science in Industrial Technology

Projected Enrollments: Waubonsee Community College anticipates an enrollment of two full-time students and two part-time students in the first year, increasing to eight full-time students and ten part-time students by the third year.

Waubonsee Community College (the College) is seeking approval to offer a 64 semester credit hour Associate of Applied Science (A.A.S.) degree in Industrial Technology. The program will prepare admitted individuals for entry-level employment as industrial technicians in manufacturing, materials processing, quality assurance, and related industries. The degree program offers students the option to focus their study in one of four specialty areas: electronic equipment, laboratory testing, machinery design, or product design, all of which will assist students in narrowing their employment goals.

The curriculum for the program consists of 19 credit hours of required general education, 28 credit hours of required career and technical education, and 17 credit hours of related technical electives. The career and technical component of the curriculum includes instruction in introductory chemistry, statistics, financial accounting, engineering graphics, manufacturing processes, machine tool basics, metrology, materials of industry, quality management for industry, and a required work-based learning experience with employers of industrial technicians. At least three career and technical education courses can be taken for dual credit through the district's local secondary Partnership for College and Career Success consortium. This arrangement will provide opportunities for local secondary students to earn credit hours towards their high school graduation requirements and completion of the Industrial Technology Advanced Certificate or the A.A.S. degree in Industrial Technology. Assessment of student learning outcomes will be achieved through an evaluation of the student's performance during the work-based learning component of the program. The student's grade point average (GPA) and course grades will be additional measures of the success of the program.

Labor market information provided by the College supports the interest in and the need for a formalized educational program in this field of study. According to the Illinois Department of Employment Security (IDES), employment growth for industrial engineering technicians is anticipated to grow by about ten percent statewide between 2006 and 2016. Locally, employment need in this occupation is expected to grow between now and 2016. In order to serve local employers of graduates of the program effectively, the College worked with local business and industry representatives to establish curricular requirements for both general education and technical coursework for the program.

Three existing full-time faculty and three existing part-time faculty members will support this program. The faculty for the program will possess a minimum of a Bachelor's degree in Industrial Technology, or an Associate degree in Industrial Technology with five years of related occupational experience, and at least two years of teaching experience. The College is also proposing to establish a related certificate program in industrial technology, whose graduates may transfer to the proposed program after their graduation. The costs of implementing the proposed programs will be approximately \$82,000 the first year, \$92,000 the second year, and \$102,000 the third year. These expenses are for faculty, equipment, library resources, and other resources to support the program.

Staff Conclusion. Waubonsee 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. Administrative Code 1050.30 and the Illinois Board of Higher Education policies pertaining to assessment and accreditation or licensure.

The staff recommends that the Illinois Board of Higher Education adopt the following resolutions:

The Illinois Board of Higher Education hereby grants authority to Danville Area Community College to offer the Associate of Applied Science in Automotive Collision Repair 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 Frontier Community College to offer the Associate of Applied Science in Information Systems Support 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 Wood Community College to offer the Associate of Applied Science in Business Leadership 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 Kaskaskia College to offer the Associate of Engineering Science 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 Lewis and Clark Community College to offer the Associate of Applied Science in Architectural 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 McHenry County College to offer the Associate of Applied Science in Occupational Therapy Assistant 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 Oakton Community College to offer the Associate of Applied Science in Computer Networking and Systems 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 Olive-Harvey College to offer the Associate of Applied Science in Human Development and Family Studies 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 South Suburban College to offer the Associate of Applied Science in Echocardiography 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 South Suburban College to offer the Associate of Applied Science in Nanoscience 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 Triton College to offer the Associate of Applied Science in Hospitality Industry Administration: Baking and Pastry 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 Wabash Valley College to offer the Associate of Applied Science in Energy 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 Waubonsee Community College to offer the Associate of Applied Science in Health Information 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 Waubonsee Community College to offer the Associate of Applied Science in Industrial 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.