**APPROVED**

**DECEMBER 14, 2021**

Item #F-1
December 14, 2021

## NEW UNITS OF INSTRUCTION AT PUBLIC COMMUNITY COLLEGES

**Submitted for:** Action.

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

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

College of DuPage
- Associate of Applied Science in Web Development

Harry S. Truman College
- Associate of Applied Science in Barbering
- Associate of Applied Science in Cosmetology

Heartland Community College
- Associate of Applied Science in Electric Vehicle Technology
- Associate of Applied Science in Trades Management

Illinois Valley Community College
- Associate of Applied Science in Dental Assisting

Kennedy-King College
- Associate of Applied Science in Networking Systems and Technologies

Olive-Harvey College
- Associate of Applied Science in Networking Systems and Technologies

Richard J. Daley College
- Associate of Applied Science in Industrial Supervision Engineering Technology
- Associate of Applied Science in Mechatronics Engineering Technology

STATE OF ILLINOIS
BOARD OF HIGHER EDUCATION

**NEW UNITS OF INSTRUCTION AT PUBLIC COMMUNITY COLLEGES**

By statute, the Illinois Board of Higher Education (IBHE) 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, staff of the IBHE and the Illinois Community College Board review the proposal. Once agreement is reached on a proposal having met the approval criteria, a recommendation for approval is presented to each board.

**Executive Summary**

College of DuPage

- Associate of Applied Science in Web Development

College of DuPage is seeking approval for a 67-credit hour Associate of Applied Science in Web Development. The degree program requires 19 credit hours of general education coursework and 48 credit hours of required career and technical education coursework. This degree program was designed to provide knowledge and skills needed for entry-level employment as a web developer. There are policies in place to ensure faculty members possess the training, credentials, and qualifications to provide instruction in the proposed program. The College has sufficient library, technology, staff, and financial resources in place to support the proposed program.

Approval request summary, including staff conclusion, follows in Attachment A.

Harry S. Truman College

- Associate of Applied Science in Barbering

Harry S. Truman College is seeking approval for a 65-credit hour Associate of Applied Science in Barbering. The degree program requires 15 credit hours of general education coursework and 50 credit hours of required career and technical education coursework. This degree program was designed to provide knowledge and skills for required state licensure, entry-level employment, and advancement opportunities as barbers. The curriculum was developed according to standards outlined in the Barber, Cosmetology, Esthetics, Hair Braiding, and Nail Technology Act to prepare individuals for the required Barber Licensure through the Illinois Department of Financial and Professional Regulation. There are policies in place to ensure faculty members possess the training, credentials, and qualifications to provide instruction in the proposed program. The College has sufficient library, technology, staff, and financial resources in place to support the proposed program.

- Associate of Applied Science in Cosmetology

Harry S. Truman College is seeking approval for a 65-credit hour Associate of Applied Science in Cosmetology. The degree program requires 15 credit hours of general education coursework and 50 credit hours of required career and technical education coursework. This degree program was designed to provide knowledge and skills for required state licensure, entry-level employment, and advancement opportunities, as cosmetologists. Required proficiency exams and exam preparation/reviews are part of the program in meeting the Illinois Department of Professional Regulation standards for a Cosmetology License. There are policies in place to ensure faculty members possess the training, credentials, and qualifications to provide instruction in the proposed program. The College has sufficient library, technology, staff, and financial resources in place to support the proposed program.

Approval request summary, including staff conclusion, follows in Attachment B.

Heartland Community College

- Associate of Applied Science in Electric Vehicle Technology

Heartland Community College is seeking approval for a 60-credit hour Associate of Applied Science in Electric Vehicle Technology. The degree program requires 16 credit hours of general education coursework and 44 credit hours of required career and technical education coursework. This degree program was designed to provide knowledge and skills needed for entry-level through advanced employment in electric vehicle technology in advanced manufacturing settings. The proposed degree will prepare individuals for Automotive Service Excellence (ASE) certifications in ASE G1 Maintenance & Light Repair, ASE A5 Brakes, ASE A6 Electrical/Electronic Systems, ASE A7 Heating and Air Conditioning, ASE A4 Suspension and Steering, ASE L3 Hybrid/Electric Vehicle. There are policies in place to ensure faculty members possess the training, credentials, and qualifications to provide instruction in the proposed program. The College has sufficient library, technology, staff, and financial resources in place to support the proposed program.

- Associate of Applied Science in Trades Management

Heartland Community College is seeking approval for a 60-credit hour Associate of Applied Science in Trades Management. The degree program requires 15 credit hours of general education coursework, 16 credit hours of required career and technical education coursework, and 29 credit hours of trades apprenticeship coursework. This degree program was designed to prepare existing trade union apprentices or individuals who have completed a trades apprenticeship for entry-level employment and advancement opportunities in supervision or management. There are policies in place to ensure faculty members possess the training, credentials, and qualifications to provide instruction in the proposed program. The College has sufficient library, technology, staff, and financial resources in place to support the proposed program.

Approval request summary, including staff conclusion, follows in Attachment C.

Illinois Valley Community College

- Associate of Applied Science in Dental Assisting

Illinois Valley Community College is seeking approval for a 60-credit hour Associate of Applied Science in Dental Assisting. The degree program requires 19 credit hours of general education coursework and 41 credit hours of required career and technical education coursework. This degree program was designed to provide knowledge and skills needed for entry-level employment as a dental assistant. This program will prepare individuals for the Certified Dental Assistant credentialing exam through the Dental Assisting National Board, as well as preparing graduates for the designation as an Expanded Functions Dental Assistant. There are policies in place to ensure faculty members possess the training, credentials, and qualifications to provide instruction in the proposed program. The College has sufficient library, technology, staff, and financial resources in place to support the proposed program.

Approval request summary, including staff conclusion, follows in Attachment D.

Kennedy-King College

- Associate of Applied Science in Networking Systems and Technologies

Kennedy-King College is seeking approval for a 61-credit hour Associate of Applied Science in Networking Systems and Technologies. The degree program requires 16 credit hours of general education coursework and 45 credit hours of required career and technical education coursework. This degree program was designed to provide knowledge and skills needed for entry-level employment in the field of information technology, specifically related to networking systems technologies. The curriculum was developed according to industry guidelines that will prepare individuals for credentials in CompTIA A+, CompTIA Network+, Certified CISCO Network Administrator (CCNA), CCNA-Security, and Cisco Certified Network Entry Technician. There are policies in place to ensure faculty members possess the training, credentials, and qualifications to provide instruction in the proposed program. The College has sufficient library, technology, staff, and financial resources in place to support the proposed program.

Approval request summary, including staff conclusion, follows in Attachment E.

Olive-Harvey College

- Associate of Applied Science in Networking Systems and Technologies

Olive-Harvey College is seeking approval for a 61-credit hour Associate of Applied Science in Networking Systems and Technologies. The degree program requires 16 credit hours of general education coursework and 45 credit hours of required career and technical education coursework. This degree program was designed to provide knowledge and skills needed for entry-level employment in the field of information technology, specifically related to networking systems technologies. The curriculum was developed according to industry guidelines that will prepare individuals for credentials in CompTIA A+, CompTIA Network+, Certified CISCO Network Administrator (CCNA), CCNA-Security, and Cisco Certified Network Entry Technician. There are policies in place to ensure faculty members possess the training, credentials, and qualifications to

provide instruction in the proposed program. The College has sufficient library, technology, staff, and financial resources in place to support the proposed program.

Approval request summary, including staff conclusion, follows in Attachment F.

Richard J. Daley College

- Associate of Applied Science in Industrial Supervision Engineering Technology

Richard J. Daley College is seeking approval for a 61-credit hour Associate of Applied Science in Industrial Supervision Engineering Technology. The degree program requires 16 credit hours of general education coursework and 45 credit hours of required career and technical education coursework. This degree program was designed to provide knowledge and skills needed for entry-level and advancement in employment in operations supervision and management. Graduates may progress to bachelor's degree in Industrial Management and transfer programs are available for those that are interested. There are policies in place to ensure faculty members possess the training, credentials, and qualifications to provide instruction in the proposed program. The College has sufficient library, technology, staff, and financial resources in place to support the proposed program.

- Associate of Applied Science in Mechatronics Engineering Technology

Richard J. Daley College is seeking approval for a 61-credit hour Associate of Applied Science in Mechatronics Engineering Technology. The degree program requires 16 credit hours of general education coursework and 45 credit hours of required career and technical education coursework. This degree program was designed to provide knowledge and skills needed for entry-level and advancement in employment in Mechatronics Engineering Technology. Graduates may progress to bachelor's degree in Industrial Maintenance and transfer programs are available for those that are interested. There are policies in place to ensure faculty members possess the training, credentials, and qualifications to provide instruction in the proposed program. The College has sufficient library, technology, staff, and financial resources in place to support the proposed program.

Approval request summary, including staff conclusion, follows in Attachment G.

The staff recommends adoption of the following resolutions:

*The Illinois Board of Higher Education hereby grants authority to College of DuPage to offer the Associate of Applied Science in Web Development 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 the Harry S. Truman College to offer the Associate of Applied Science in Barbering and Associate of Applied Science in Cosmetology 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 the Heartland Community College to offer Associate of Applied Science in Electric Vehicle Technology and Associate of Applied Science in Trades Management 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 the Illinois Valley Community College to offer the Associate of Applied Science in in Dental Assisting 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 the Kennedy-King College to offer the Associate of Applied Science in Networking Systems and Technologies 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 Networking Systems and Technologies 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 the Richard J. Daley College to offer the Associate of Applied Science in in Industrial Supervision Engineering Technology and the Associate of Applied Science in Mechatronics Engineering 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.*

**College of DuPage**
**425 Fawell Boulevard**
**Glen Ellyn, IL 60137**
**President: Dr. Brian Caputo**

**Proposed Program Title:** Associate of Applied Science in Web Development (67 credit hours)

**Program Purpose**

This program will prepare individuals for entry-level employment and advancement opportunities in web development.

**Catalog Description**

The Associate of Applied Science (AAS) in Web Development is designed for students who wish to enter into the web development market or who are already working as web developers in the industry and wish to obtain a formalized educational credential. This degree prepares students to design and develop web sites using the popular web development technologies of the day.

**Curricular Information**

The AAS in Web Development requires 19 credit hours of general education coursework and 48 credit hours of career and technical education coursework. The career and technical coursework include instruction in introductory computers and information systems, human computer interaction, introductory networking, web design software, HTML and CSS, programming logic and technique, introductory Java, advanced Java technologies, introductory/advanced levels of JavaScript programming, structured query language (SQL), database management, and introductory systems analysis and design. Assessment of student learning will be achieved through evaluation of the student's professional portfolio by program faculty.

**Justification for Credit Hours Required**

This program meets the requirement for completion of an AAS degree, including 18 credit hours of general education, at College of DuPage. Further, the curriculum includes the skills/content/coursework outlined by local employers for graduates of the program to be successful in acquiring entry-level employment within the district.

**Accrediting Information**

The College of DuPage (the College) is accredited by the Higher Learning Commission. No specialized accreditation is required.

**Supporting Labor Market Data (including employer partners)**

Labor market information provided by the College supports the interest in and the need for a two-year degree program in this field of study. According to the Illinois Department of Employment Security (IDES), employment of web development-related occupations is projected to increase between 4.5 – 15.9 percent statewide through 2028. The proposed program provides a

continued educational ladder opportunity for students completing the College's Web Development Certificate.

*Table 1: Employer Partners*

| Employers | Location |
|---|---|
| Viskase | Lombard, IL |
| Nokia | Naperville, IL |

*Table 2: Projected Enrollments*

| Web Development AAS | First Year | Second Year | Third Year |
|---|---|---|---|
| Full-Time Enrollments: | 20 | 30 | 40 |
| Part-Time Enrollments: | 15 | 20 | 20 |
| Completions: | - | 35 | 50 |

**Financial / Budgetary Information**

The program will require two existing part-time faculty. Qualified teaching faculty will hold at least a master's degree in Computer Information Systems, Web Development or closely related field, have at least two years occupational experience in the field, and two years teaching experience preferred. The program will utilize educational funds to cover costs during the first three years and will otherwise be fiscally supported through student tuition and fees.

*Table 3: Financial Information*

| | First Year | Second Year | Third Year |
|---|---|---|---|
| Faculty Costs | $0 | $0 | $0 |
| Administrator Costs | - | - | - |
| Other Personnel Costs | - | - | - |
| Equipment Costs | - | - | - |
| Library/LRC Costs | - | - | - |
| Facility Costs* | - | - | - |
| Other | - | - | - |
| TOTAL NEW COSTS | **$0** | **$0** | **$0** |

*Table 4: Faculty Requirements*

| | First Year | | Second Year | | Third Year | |
|---|---|---|---|---|---|---|
| | Full-Time | Part-time | Full-Time | Part-time | Full-Time | Part-time |
| New Faculty | 0 | 0 | 0 | 1 | 0 | 1 |
| Existing Faculty | 2 | 1 | 2 | 2 | 2 | 3 |

**Illinois Valley Community College**
**815 North Orlando Smith Road**
**Oglesby, IL 61348**
**President: Dr. Jerry Corcoran**

**Proposed Program Title:** Associate of Applied Science in Dental Assisting (60 credit hours)

**Program Purpose**

The program will prepare individuals for entry-level employment as a dental assistant in a variety of dental healthcare environments.

**Catalog Description**

The Associate of Applied Science (AAS) in Dental Assisting prepares students for an active role in dentistry through classroom, laboratory, and hands-on experiences in modern, high-tech facilities where highly experienced and qualified dental professionals teach and supervise all on- and off-campus activities. Members of the dental community also donate their time and expertise to the program to ensure well-rounded and highly trained dental assistants enter the workforce. The degree uses the AAS General Education Package which allows students to choose, based on their individual career goals, which general education courses best fit their needs and interest. Students successfully completing either the AAS or Certificate in Dental Assisting will also hold the designation as an Expanded Functions Dental Assistants (EFDA).

**Curricular Information**

The AAS in Dental Assisting requires 19 credit hours of general education coursework and 41 credit hours of career and technical education coursework. The career and technical coursework include instruction in introductory/intermediate levels of dental science, infection control, dental materials and lab procedures, introductory/intermediate levels of chairside assisting, communication in healthcare, introductory/intermediate levels of dental lab procedures, dental software, dental administrative assistant, body systems, pharmacology, oral pathology, introductory/intermediate levels of expanded functions, medical emergencies, preventative dentistry, dental radiography, clinical practice in dental assisting, and a supervised work-based learning experience in dental assisting. Assessment of student learning will be achieved through evaluation of the student's performance during the clinical practicum by program faculty, and during the work-based learning experience by the worksite supervisor. This program will prepare individuals for the Certified Dental Assistant (CDA) credentialing exam through the Dental Assisting National Board (DANB), as well as preparing graduates for the designation as an EFDA. The proposed program provides a continued educational ladder opportunity for students completing the Basic Dental Office Management Certificate (8.5 credit hours), and an Advanced Dental Office Management Certificate (8.5 credit hours).

**Justification for Credit Hours Required**

The proposed degree uses the AAS General Education Package, which allows students to choose, based on their individual career goals, which general education courses best fit their needs and interest. This general education package will fully articulate towards the Bachelor of Science in Dental Hygiene at Southern Illinois University at Carbondale (SIUC). Further, course content meets

the requirements and standards for accreditation by the Commission on Dental Accreditations (CODA).

**Accrediting Information**

Illinois Valley Community College is accredited by the Higher Learning Commission. The curriculum was to meet their requirements and standards, including 300 clinical practice hours. CODA accreditation for the AAS in Dental Assisting will allow students to transfer into CODA accredited dental hygiene bachelor's degree programs. The College plans to begin the program accreditation process all appropriate state approvals have been granted.

**Supporting Labor Market Data (including employer partners)**

Labor market information provided by the College supports the interest in and the need for a two-year degree program in this field of study. According to the IDES, employment of dental assistants is projected to increase by 4 percent statewide through 2028.

*Table 1: Employer Partners*

| Employers | Location |
|---|---|
| Dr. Mark Benavides | Ottawa, IL |
| Dr. Steven Ludford | Peru, IL |
| Dr. Shawn Sydlowski | Wenona, IL |
| Dr. William Vesely (retired) | Ottawa IL |
| Dr. Brendan Graham | Streator, IL |
| Dr. Sharar: Alliance Dental | Oglesby, IL |
| Dr. Fiedler | Granville, IL |
| Dr. Kim: Modern Dentistry | Yorkville, IL |
| Dr. Villalobos | Mendota, IL |
| Dr. Brewer | Ottawa, IL |
| Dr. Puhr | Princeton, IL |
| Lifetime of Smiles: Dr. Ed Monroe | Peru, IL |
| Dr. Davis | Ottawa, IL |
| Ottawa Children's Dentistry: Dr. Bobbi Laun | Ottawa, IL |
| Dr. Manny Valerin | Peoria, IL |
| Dr. Heather Mueller | Princeton, IL |
| Community Health Partnership of Illinois | Mendota, IL |
| Dr. Pedro Monzon | Princeton, IL |
| Dr. Elvin Krabill | Princeton, IL |
| Dr. Johathon Faber | Ottawa, IL |

*Table 2: Projected Enrollments*

| Dental Assisting AAS | First Year | Second Year | Third Year |
|---|---|---|---|
| Full-Time Enrollments: | 8 | 10 | 12 |
| Part-Time Enrollments: | 5 | 7 | 9 |
| Completions: | - | 10 | 12 |

**Financial / Budgetary Information**

The program will require one existing part-time faculty and three existing part-time faculty. The program administrator and instructors of didactic coursework must hold a bachelor's degree and a current CDA credential; program faculty over laboratory, preclinical or clinical coursework must hold an associate degree in Dental Assisting and a current CDA credential; all faculty must have at least two years occupational experience in the field, and one year teaching experience preferred. Most resources for the proposed degree will be shared with existing related programs. The program will utilize educational funds to cover costs during the first three years and will otherwise be fiscally supported through student tuition and fees.

*Table 3: Financial Information*

| | First Year | Second Year | Third Year |
|---|---|---|---|
| Faculty Costs | $0 | $0 | $0 |
| Administrator Costs | - | - | - |
| Other Personnel Costs | - | - | - |
| Equipment Costs | - | - | - |
| Library/LRC Costs | - | - | - |
| Facility Costs* | - | - | - |
| Other | - | - | - |
| TOTAL NEW COSTS | **$0** | **$0** | **$0** |

*Table 4: Faculty Requirements*

| | First Year | | Second Year | | Third Year | |
|---|---|---|---|---|---|---|
| | Full-Time | Part-time | Full-Time | Part-time | Full-Time | Part-time |
| New Faculty | 0 | 0 | 0 | 0 | 0 | 0 |
| Existing Faculty | 1 | 3 | 1 | 3 | 1 | 3 |

**Heartland Community College**
**1500 West Raab Road**
**Normal, IL 61761**
**President: Dr. Keith Comille**

**Proposed Program Title:** Associate of Applied Science (AAS) in Electric Vehicle Technology (60 credit hours)

**Program Purpose**

This program meets the emerging needs of the district's workforce for individuals trained for entry-level through advanced employment in electric vehicle technology in advanced manufacturing settings.

**Catalog Description**

The Associate of Applied Science (AAS) in Electric Vehicle Technology program prepares students to meet the demands of the emerging field of manufacture, diagnosis, service, and repair of electric powered vehicles. The AAS and Certificate programs are designed to prepare individuals with the skills and competencies necessary for a variety of successful career options in assembly, maintenance and light repair, service advising, and as electric vehicle technicians through adoption of the habits and attitude necessary to excel in a highly competitive environment. The energy storage component of the program can be transferred from vehicles to post-vehicle battery second-life applications in stationary residential, commercial, and utility-scale energy storage systems.

**Curricular Information**

The AAS in Electric Vehicle Technology requires 16 credit hours of general education, and 44 credit hours of career and technical education coursework. The career and technical coursework includes instruction in business communications, employment success strategies, DC electronics, AC electronics, digital electronics and microprocessors, introductory electric vehicle technology, braking systems 1 and 2, steering and suspension systems 1 and 2, climate control and thermal management, electrical and chassis control systems 1 and 2, high voltage architecture, battery technologies, OSHA Industry Certification, and an internship in electric vehicle technology.

The proposed degree will prepare individuals for Automotive Service Excellence (ASE) certifications in ASE G1 Maintenance and Light Repair, ASE A5 Brakes, ASE A6 Electrical/Electronic Systems, ASE A7 Heating and Air Conditioning, ASE A4 Suspension and Steering, ASE L3 Hybrid/Electric Vehicle. Assessment of student learning will be achieved through evaluation of the student's performance during the required work-based learning component by program faculty and worksite supervisor. The proposed program provides a continued educational ladder opportunity for students completing the College's recently approved Basic Certificates in Maintenance and Light Repair, and Service Advisor.

**Accrediting Information**

Heartland Community College (the College) is accredited by the Higher Learning Commission. No specialized accreditation is required for students to sit for certification exams.

**Supporting Labor Market Data (including employer partners)**

Labor market information provided by the College supports the interest in and the need for programs in this field of study. According to the Illinois Department of Employment Security (IDES), employment growth for occupations related to automotive technology is expected to increase statewide by about five percent statewide through the year 2028.

*Table 1: Employer Partners*

| **Employer** | **Location** |
|---|---|
| Rivian, LLC | Normal, IL |
| Power Up Illinois | Chicago, IL |
| Invenergy | Chicago, IL |
| Connect Transit | Bloomington, IL |
| Zeller Electric | Goodfield, IL |

*Table 2: Projected Enrollments*

| **Electric Vehicle Tech AAS** | **First Year** | **Second Year** | **Third Year** |
|---|---|---|---|
| Full-Time Enrollments: | 8 | 16 | 24 |
| Part-Time Enrollments: | 4 | 8 | 12 |
| Completions: | - | 8 | 16 |

**Financial / Budgetary Information:**

The program will require one new full-time, three existing full-time, and one new part-time faculty the first year. Qualified faculty will hold at least one year work experience in automotive technology, one year of work experience in electrical vehicle technology, ASE Certification, and some teaching experience is preferred. Equipment purchases are being covered by grant funds through the Illinois Department of Commerce and Economic Opportunity (IDCEO). The program will otherwise be supported fiscally through student tuition and fees.

*Table 3: Financial Information*

| | **First Year** | **Second Year** | **Third Year** |
|---|---|---|---|
| Faculty Costs | $74,036 | $15,600 | $15,600 |
| Administrator Costs | - | - | - |
| Other Personnel costs | - | - | - |
| Equipment Costs | $358,189 | $80,000 | $50,000 |
| Library/LRC Costs | - | - | - |
| Facility Costs* | - | - | - |
| Other | - | - | - |
| **TOTAL NEW COSTS** | **$432,225** | **$95,600** | **$65,600** |

*Table 4: Faculty Requirements*

| | First Year | | Second Year | | Third Year | |
|---|---|---|---|---|---|---|
| | Full-time | Part-time | Full-Time | Part-time | Full-Time | Part-time |
| New Faculty | 1 | 1 | 0 | 1 | 0 | 1 |
| Existing Faculty | 0 | 3 | 1 | 4 | 1 | 5 |

**Proposed Program Title:** Associate of Applied Science in Trades Management (60 credit hours)

**Program Purpose**

The program will prepare existing trade union apprentices or individuals who have completed a trades apprenticeship for entry-level employment and advancement opportunities in supervision or management.

**Catalog Description**

The Associate of Applied Science (AAS) in Trades Management prepares a trade union apprentice to transition to a supervisor or management role. Apprenticeship courses completed through a trade union such as laborers, electricians, plumbers and pipefitters, boilermakers, etc. may be used towards this degree. Students will also learn supervisory, computer, customer relations, and other basic business skills that enhance their existing trades skills and can be applied in a variety of work settings.

**Curricular Information:**

The AAS in Trades Management requires 15 credit hours of general education coursework, 16 credit hours of business and technical coursework, and 29 credit hours of trades apprenticeship coursework. The career and technical education component includes instruction in business communications, customer relations, supervision, introduction to computer applications, construction mathematics, craft orientation, asbestos abatement, asphalt technology and construction, introductory and intermediate levels of concrete specialist, blueprint reading and specifications, grade checking, mason tending, pipelaying, bridge construction/renovation/demo, global positioning systems, hoisting and rigging, landscaping, and hazardous waste operations and procedures. Assessment of student learning will be achieved through evaluation of the student's performance during the work-based learning component of the apprenticeship coursework by program faculty and worksite supervisor(s). The proposed program provides a continued educational ladder opportunity for students completing the Technical Skills Certificate program.

**Accrediting Information**

Heartland Community College (the College) is accredited by the Higher Learning Commission. No specialized accreditation is required.

**Supporting Labor Market Data (including employer partners)**

Labor market information provided by the College supports the interest in and the need for a two-year degree program in this field of study. According to the IDES, employment of first-line supervisors and managers in construction trades-related occupations is projected to increase by 2.9 percent statewide through 2028.

*Table 1: Employer Partners*

| Employers | Location |
|---|---|
| Illinois Laborers' and Contractors Joint Apprenticeship and Training Program | Stanford, IL |
| Bloomington/Normal Joint Apprenticeship Training Committee of Electrical Workers | Bloomington, IL |

*Table 2: Projected Enrollments*

| Trades Management AAS | First Year | Second Year | Third Year |
|---|---|---|---|
| Full-Time Enrollments: | 1 | 2 | 3 |
| Part-Time Enrollments: | 2 | 6 | 10 |
| Completions: | - | 2 | 8 |

**Financial / Budgetary Information**

Two existing part-time faculty will be required to implement the program. Qualified teaching faculty will hold a bachelor's degree in a related field plus one year work experience for business/technical core courses; an associate degree in a related trades field or at least one year work experience as a trades journeyperson at the supervisory/management level for trades courses; and some teaching experience preferred. The program will utilize educational funds to cover costs during the first three years and will otherwise be fiscally supported through student tuition and fees.

*Table 3: Financial Information*

| | First Year | Second Year | Third Year |
|---|---|---|---|
| Faculty Costs | $0 | $0 | $0 |
| Administrator Costs | - | - | - |
| Other Personnel Costs | - | - | - |
| Equipment Costs | - | - | - |
| Library/LRC Costs | - | - | - |
| Facility Costs* | - | - | - |
| Other | - | - | - |
| TOTAL NEW COSTS | **$0** | **$0** | **$0** |

*Table 4: Faculty Requirements*

| | First Year | | Second Year | | Third Year | |
|---|---|---|---|---|---|---|
| | Full-Time | Part-time | Full-Time | Part-time | Full-Time | Part-time |
| New Faculty | 0 | 0 | 0 | 1 | 0 | 1 |
| Existing Faculty | 0 | 2 | 0 | 2 | 0 | 3 |

**Kennedy-King College**
**6242 South Halsted**
**Chicago, IL 60621**
**President: Dr. Gregory Thomas**

**Proposed Program Title:** Associate of Applied Science in Networking Systems and Technologies (61 credit hours)

**Program Purpose**

This program will prepare individuals for entry-level employment and advancement opportunities in the field of information technology, specifically related to networking systems technologies.

**Catalog Description**

The Associate of Applied Science (AAS) in Networking Systems and Technologies is for students interested in administering and maintaining network equipment such as routers, switches, and servers, as well as, maintaining software and services that are common in modern network infrastructures. The curriculum covers both hardware and software components which help prepare students for jobs in the Information Technology (IT) market. Students gain relevant knowledge and skills required in a variety of industry certifications including A+, Network+, Cisco Certified Network Entry Technician (CCNET), CompTIA Network+, Certified CISCO Network Administrator (CCNA), and CCNA Security.

**Curricular Information**

The AAS in Networking Systems and Technologies requires 16 credit hours of general education coursework and 45 credit hours of career and technical education coursework. The career and technical education component includes instruction in computer science, computer operations, introductory/intermediate levels of operating systems, information security essentials, introductory/intermediate/advanced levels of internetworking technologies, operating systems servers, cloud computing and services, a required work-based learning experience in computer information systems, and technical electives to allow for specialization in computer systems analysis, advanced networking, or cybersecurity. The curriculum was developed according to industry guidelines that will prepare individuals for credentials in CompTIA A+, CompTIA Network+, Certified CISCO Network Administrator, CCNA-Security, and Cisco Certified Network Entry Technician. Assessment of student learning objectives for both programs will be achieved through an evaluation of the students work-based learning field project/internship by program faculty and field/worksite supervisor.

**Accrediting Information**

Kennedy-King College (the College) is accredited by the Higher Learning Commission. No specialized accreditation is required.

**Justification for Credit Hours Required**

This program exceeds 60 credit hours in total due to a required math course totaling four credit hours.

**Supporting Labor Market Data (including employer partners)**

Labor market information provided by the College supports the interest in and the need for programs in this field of study. According to the Illinois Department of Employment Security (IDES), employment growth for networking technicians and related occupations is expected to increase statewide by five percent through the year 2028.

*Table 1: Employer Partners*

| Employer | Location |
|---|---|
| AWS-Global Growth Systems | Jacksonville, FL |
| Apple-IOS | Cupertino, CA |
| Cisco-Educational Programming | San Jose, CA |
| Fortinet | Sunnyvale, CA |
| SDI Presence | Chicago, IL |

*Table 2: Projected Enrollments*

| Networking Systems & Tech AAS | First Year | Second Year | Third Year |
|---|---|---|---|
| Full-Time Enrollments: | 4 | 6 | 8 |
| Part-Time Enrollments: | 8 | 10 | 10 |
| Completions: | 10 | 12 | 15 |

**Financial / Budgetary Information**

The program will require three existing full-time and one new part-time faculty in the first year. Qualified faculty will hold a master's degree in Information Technology or closely related field; at least one year work experience in IT with networking; and one year of teaching experience is preferred. All facilities are in place to support the program and will share existing resources with the Information Technology programs currently being offered. The program will otherwise be supported fiscally through student tuition and fees.

*Table 3: Financial Information*

| | First Year | Second Year | Third Year |
|---|---|---|---|
| Faculty Costs | $6,000 | $6,000 | $6,000 |
| Administrator Costs | - | - | - |
| Other Personnel costs | - | - | - |
| Equipment Costs | - | - | - |
| Library/LRC Costs | - | - | - |
| Facility Costs* | - | - | - |
| Other | - | - | - |
| **TOTAL NEW COSTS** | **$6,000** | **$6,000** | **$6,000** |

*Table 4: Faculty Requirements*

| | First Year | | Second Year | | Third Year | |
|---|---|---|---|---|---|---|
| | Full-time | Part-time | Full-Time | Part-time | Full-Time | Part-time |
| New Faculty | 1 | 0 | 1 | 1 | 1 | 1 |
| Existing Faculty | 3 | 0 | 4 | 0 | 5 | 1 |

**Olive-Harvey College**
**10001 South Woodlawn Avenue**
**Chicago, IL 60628**
**Interim President: Ms. Kimberly Hollingsworth**

**Proposed Program Title:** Associate of Applied Science in Networking Systems and Technologies (61 credit hours)

**Program Purpose**

This program will prepare individuals for entry-level employment and advancement opportunities in the field of information technology, specifically related to networking systems technologies.

**Catalog Description**

The Associate of Applied Science (AAS) in Networking Systems and Technologies is for students interested in administering and maintaining network equipment such as routers, switches, and servers, as well as, maintaining software and services that are common in modern network infrastructures. The curriculum covers both hardware and software components which help prepare students for jobs in the Information Technology (IT) market. Students gain relevant knowledge and skills required in a variety of industry certifications including A+, Network+, Cisco Certified Network Entry Technician (CCNET), CompTIA Network+, Certified CISCO Network Administrator (CCNA), and CCNA Security.

**Curricular Information**

The AAS in Networking Systems and Technologies requires 16 credit hours of general education coursework and 45 credit hours of career and technical education coursework. The career and technical education coursework includes instruction in computer science, computer operations, introductory/intermediate levels of operating systems, information security essentials, introductory/intermediate/advanced levels of internetworking technologies, operating systems servers, cloud computing and services, a required work-based learning experience in computer information systems, and technical electives to allow for specialization in computer systems analysis, advanced networking, or cybersecurity. The curriculum was developed according to industry guidelines that will prepare individuals for credentials in CompTIA A+, CompTIA Network+, Certified CISCO Network Administrator (CCNA), CCNA-Security, and Cisco Certified Network Entry Technician (CCNET). Assessment of student learning objectives for both programs will be achieved through an evaluation of the students work-based learning field project/internship by program faculty and field/worksite supervisor.

**Accrediting Information**

Olive-Harvey College (the College) is accredited by the Higher Learning Commission. No specialized accreditation is required.

**Justification for Credit Hours Required**

This program exceeds 60 credit hours in total due to a required math course totaling four credit hours.

**Supporting Labor Market Data (including employer partners)**

Labor market information provided by the College supports the interest in and the need for programs in this field of study. According to the Illinois Department of Employment Security (IDES), employment growth for networking technicians and related occupations is expected to increase statewide by five percent through the year 2028.

*Table 1: Employer Partners*

| **Employer** | **Location** |
|---|---|
| AWS-Global Growth Systems | Jacksonville, FL |
| Apple-IOS | Cupertino, CA |
| Cisco-Educational Programming | San Jose, CA |
| Fortinet | Sunnyvale, CA |
| SDI Presence | Chicago, IL |

*Table 2: Projected Enrollments*

| **Networking Systems & Tech AAS** | **First Year** | **Second Year** | **Third Year** |
|---|---|---|---|
| Full-Time Enrollments: | 2 | 5 | 8 |
| Part-Time Enrollments: | 2 | 5 | 8 |
| Completions: | - | 5 | 10 |

**Financial / Budgetary Information**

The program will require one existing full-time, three existing part-time, and one new part-time faculty for the first year. Qualified faculty will hold a master's degree in Information Technology or closely related field; at least one year work experience in IT with networking; and one year of teaching experience is preferred. All facilities are in place to support the program and will share existing resources with the Information Technology programs currently being offered. The program will otherwise be supported fiscally through student tuition and fees.

*Table 3: Financial Information*

| | **First Year** | **Second Year** | **Third Year** |
|---|---|---|---|
| Faculty Costs | $110,000 | $130,000 | $150,000 |
| Administrator Costs | - | - | - |
| Other Personnel costs | - | - | - |
| Equipment Costs | - | - | - |
| Library/LRC Costs | - | - | - |
| Facility Costs* | - | - | - |
| Other (Software subscriptions) | $6,000 | $6,000 | $6,000 |
| **TOTAL NEW COSTS** | **$116,000** | **$136,000** | **$156,000** |

*Table 4: Faculty Requirements*

| | **First Year** | | **Second Year** | | **Third Year** | |
|---|---|---|---|---|---|---|
| | Full-time | Part-time | Full-Time | Part-time | Full-Time | Part-time |
| New Faculty | 0 | 2 | 0 | 2 | 1 | 1 |
| Existing Faculty | 1 | 3 | 1 | *5* | 1 | *7* |

**Harry S. Truman College**
**1145 West Wilson Avenue**
**Chicago, IL 60640**
**President: Dr. Shawn L. Jackson**

**Proposed Program Title:** Associate of Applied Science in Barbering (65 credit hours)

**Program Purpose**

This program will prepare individuals for required state licensure, entry-level employment, and advancement opportunities, as barbers.

**Catalog Description**

The Associate in Applied Science (AAS) in Barbering offers students an opportunity to gain industry knowledge and practice in haircutting/shaping, razor shaving, styling, creative and graphic designs, chemical services, skincare, and nailcare. Additionally, students will acquire information about operating and owning a business to best prepare them to assume key consulting positions within the industry and to successfully own and manage their own barbershop. Training with live models and consultation with industry professionals are highlights of the program in emphasizing a myriad of career opportunities in the field. Required proficiency exams and exam preparation/reviews are part of the program in meeting the Illinois Department of Professional Regulation (IDFPR) standards. All discipline courses are taught by licensed teaching staff, using standard industry equipment, approved facilities, and quality course content that meets industry requirements. In the AAS in Barbering, students will also complete general education courses that include English composition, mathematics, computer information science, and business courses.

**Curricular Information**

The AAS in Barbering requires 15 credit hours of general education, and 50 credit hours of career and technical education coursework. The career and technical coursework include instruction in introduction to barbering, introductory/intermediate/advanced levels in the art of barbering, introductory/intermediate /advanced levels of salon technology, chemical styling, barber styling, and barber license review. The curriculum was developed according to standards outlined in the Barber, Cosmetology, Esthetics, Hair Braiding, and Nail Technology Act to prepare individuals for the required Barber Licensure through the IDFPR.

Assessment of student learning will be achieved through evaluation of the student's performance during the salon technology sequence of courses. Students will be evaluated during their work-based learning experience in the college's barber lab by program faculty, including a licensed barber-instructor.

**Accrediting Information**

Olive-Harvey College (the College) is accredited by the Higher Learning Commission. The program must be approved by the IDFPR in compliance with Section 1175.330 Barber Curriculum Requirements of the Barber, Cosmetology, Esthetics, Hair Braiding, and Nail Technology Act. The College's existing Barbering Certificate program is IDFPR approved.

**Justification for Credit Hours Required**

Barber curriculum in the State of Illinois must be a minimum of 50 credit hours, according to the Barber, Cosmetology, Esthetics, Hair Braiding, and Nail Technology Act Section 1175.330 Barber Curriculum Requirements. The proposed degree builds on the minimum requirements for a certificate to include the minimum amount of general education requirements for an Associates of Applied Science degree.

**Supporting Labor Market Data (including employer partners)**

Labor market information provided by the College supports the interest in and the need for training programs in this field of study. According to the Illinois Department of Employment Security (IDES), employment growth in occupations related to barbering is expected to increase statewide around 2.1percent through the year 2028.

*Table 1: Employer Partners*

| Employer | Location |
|---|---|
| Creative Beauty Concepts LTD | Chicago, IL |
| Antje Kastner Studio | Chicago, IL |
| Larry's Barber College | Chicago, IL |
| O'Hara & Friends Salon | Chicago, IL |
| Expect Success Salon | Chicago, IL |
| Pivot Point Salon | Chicago, IL |
| Zhen Beauty School | Chicago, IL |

*Table 2: Projected Enrollments*

| Barbering AAS degree | First Year | Second Year | Third Year |
|---|---|---|---|
| Full-Time Enrollments: | 36 | 45 | 57 |
| Part-Time Enrollments: | 2 | 4 | 6 |
| Completions: | | 3 | 29 |

**Financial / Budgetary Information**

The program will require one existing full-time and four existing part-time faculty for the first year. Qualified faculty will hold a current professional license in barber instruction, hold a current Illinois Barber License, have at least two years of work experience as a professional barber and one year teaching experience. The proposed degree will share resources with the existing certificate program. The program will be supported fiscally through student tuition and fees.

*Table 3: Financial Information*

| | First Year | Second Year | Third Year |
|---|---|---|---|
| Faculty Costs | $0 | $0 | $0 |
| Administrator Costs | - | - | - |
| Other Personnel costs | - | - | - |
| Equipment Costs | - | - | - |
| Library/LRC Costs | - | - | - |
| Facility Costs* | - | - | - |
| Other | - | - | - |
| **TOTAL NEW COSTS** | **$0** | **$0** | **$0** |

*Table 4: Faculty Requirements*

| | First Year | | Second Year | | Third Year | |
|---|---|---|---|---|---|---|
| | Full-time | Part-time | Full-Time | Part-time | Full-Time | Part-time |
| New Faculty | 0 | 0 | 0 | 0 | 0 | 0 |
| Existing Faculty | 1 | 4 | 1 | 5 | 1 | 6 |

**Proposed Program Title:** Associate of Applied Science in Cosmetology (65 credit hours)

**Program Purpose**

This program will prepare individuals for required state licensure, entry-level employment, and advancement opportunities, as cosmetologists.

**Catalog Description**

The Associate in Applied Science (AAS) in Cosmetology offers students an opportunity to gain industry knowledge and practice in haircutting, styling, chemical services, skincare, and nailcare. Additionally, students will acquire information about operating and owning a business to prepare them to assume key consulting positions within the industry and to successfully own and manage their own salon. Training with live models and consultation with beauty-industry professionals are highlights of the program in emphasizing a myriad of career opportunities in the field. Required proficiency exams and exam preparation/reviews are part of the program in meeting the IDPR standards. All discipline courses are taught by licensed teaching staff, using standard industry equipment, approved facilities, and quality course content that meets industry requirements. For the AAS, students will also complete general education courses that include English composition, mathematics, computer information science, and business courses.

**Curricular Information**

The curriculum includes 15 credit hours of required general education, and 50 credit hours of required career and technical education coursework. The career and technical coursework include instruction in introductory/intermediate/advanced levels of cosmetology, introductory/intermediate /advanced levels of salon technology, chemical styling, styling technology, and cosmetology license review. The curriculum was developed according to standards outlined in the Barber, Cosmetology, Esthetics, Hair Braiding, and Nail Technology Act to prepare individuals for the required Cosmetologist Licensure through the IDFPR.

Assessment of student learning will be achieved through evaluation of the student's performance during the salon technology sequence of courses. Students will be evaluated during their work-based learning experience in the college's cosmetology lab by program faculty, including a licensed cosmetology-instructor.

**Accrediting Information**

Olive-Harvey College (the College) is accredited by the Higher Learning Commission. The program must be approved by the IDFPR in compliance with Section 1175.330 Barber Curriculum Requirements of the Barber, Cosmetology, Esthetics, Hair Braiding, and Nail Technology Act. The College's existing Cosmetology Certificate program is IDFPR approved.

**Justification for Credit Hours Required**

Barber curriculum in the State of Illinois must be a minimum of 50 credit hours, according to the Barber, Cosmetology, Esthetics, Hair Braiding, and Nail Technology Act Section 1175.330 Barber Curriculum Requirements. The proposed degree builds on the minimum requirements for a certificate to include the minimum amount of general education requirements for an AAS degree.

**Supporting Labor Market Data (including employer partners)**

Labor market information provided by the College supports the interest in and the need for training programs in this field of study. According to the IDES, employment growth in occupations related to cosmetology is expected to increase statewide around 2.1percent through the year 2028.

*Table 1: Employer Partners*

| **Employer** | **Location** |
|---|---|
| Creative Beauty Concepts LTD | Chicago, IL |
| Antje Kastner Studio | Chicago, IL |
| Larry's Barber College | Chicago, IL |
| O'Hara & Friends Salon | Chicago, IL |
| Expect Success Salon | Chicago, IL |
| Pivot Point Salon | Chicago, IL |
| Zhen Beauty School | Chicago, IL |

*Table 2: Projected Enrollments*

| **Cosmetology AAS degree** | **First Year** | **Second Year** | **Third Year** |
|---|---|---|---|
| Full-Time Enrollments: | 36 | 45 | 57 |
| Part-Time Enrollments: | 2 | 4 | 6 |
| Completions: | | 3 | 29 |

**Financial / Budgetary Information**

The program will require one existing full-time and four existing part-time faculty for the first year. Qualified faculty will hold a current professional license in barber instruction, hold a current Illinois Cosmetologist License, have at least two years of work experience as a professional cosmetologist and one year teaching experience. The proposed degree will share resources with the existing certificate program. The program will be supported fiscally through student tuition and fees.

*Table 3: Financial Information*

| | **First Year** | **Second Year** | **Third Year** |
|---|---|---|---|
| Faculty Costs | $0 | $0 | $0 |
| Administrator Costs | - | - | - |
| Other Personnel costs | - | - | - |
| Equipment Costs | - | - | - |
| Library/LRC Costs | - | - | - |
| Facility Costs* | - | - | - |
| Other | - | - | - |
| **TOTAL NEW COSTS** | **$0** | **$0** | **$0** |

*Table 4: Faculty Requirements*

| | First Year | | Second Year | | Third Year | |
|---|---|---|---|---|---|---|
| | Full-time | Part-time | Full-Time | Part-time | Full-Time | Part-time |
| New Faculty | 0 | 0 | 0 | 0 | 0 | 0 |
| Existing Faculty | 1 | 4 | 1 | 5 | 1 | 6 |

**Richard J. Daley College**
**7500 S. Pulaski Road**
**Chicago, IL 60652**
**President: Dr. Janice Janosky**

**Proposed Program Title:** Associate of Applied Science in Industrial Supervision Engineering Technology (61 credit hours)

**Program Purpose**

This program will prepare individuals for advancement into supervisory employment in positions within industrial and/or manufacturing environments.

**Catalog Description**

The Associate of Applied Science (AAS) in Industrial Supervision Engineering Technology is for students who have completed the Advanced Certificate and are looking to further advance their skills for increased career opportunities in operations supervision and management with additional courses in industrial electricity, maintenance technology, quality systems, automated metrology/quality assurance, business operations, supervision, and human resource management. Technical environments such as manufacturing have many leadership roles that require technical knowledge in combination with business and supervisory skills. Graduates may progress onto bachelor's degree programs in Industrial Management and transfer opportunities are available for those individuals interested.

**Curricular Information**

The AAS in Industrial Supervision Engineering Technology requires 16 credit hours of general education, and 45 credit hours of career and technical education coursework. The career and technical coursework include instruction in introductory/intermediate/advanced levels of advanced manufacturing, robotics, manual machining, introductory CNC operations, GMAW welding skills, introductory automated fabrication, industrial electricity, maintenance technology, quality systems, automated metrology/quality assurance, business operations, supervision, and human resource management. Assessment of student learning will be achieved through evaluation of the student's performance on a comprehensive lab project. The proposed programs provide a continued educational ladder opportunity for students completing the College's recently approved Basic Certificates in Manufacturing Technology and CNC Technology.

**Accrediting Information**

Richard J. Daley College (the College) is accredited by the Higher Learning Commission. No specialized accreditation is required.

**Justification for Credit Hours Required**

This program exceeds 60 credit hours in total due to a required math course totaling four credit hours.

**Supporting Labor Market Data (including employer partners)**

Labor market information provided by the College supports the interest in and the need for programs in this field of study. According to the Illinois Department of Employment Security (IDES), employment growth for industrial production managers and related occupations is expected to increase statewide by 3.99 percent through the year 2028.

*Table 1: Employer Partners*

| **Employer** | **Location** |
|---|---|
| Illinois Manufacturers Association | Springfield, IL |
| Bedford Park-Clearing Industrial Association | Bedford Park, IL |
| National Coalition of Certification Centers (NC3) | Pleasant Prairie, WI |
| Calumet Area Industrial Commission | Calumet City, IL |
| German American Chamber of Commerce of the Midwest | Chicago, IL |
| American Gear Manufacturer Association | Alexandria, VA |
| Southern Illinois University | Carbondale, IL |
| Dearborn Tool & Manufacturing | Burr Ridge, IL |
| S&C Electric | Chicago, IL |
| TempelSteel | Chicago, IL |
| UPS | Hodgkins, IL |
| Skolnik Industries | Chicago, IL |
| Worlds Fines Chocolate | Chicago, IL |
| Ed Miniat Foods | South Holland, IL |
| Chunichi Precision Molding USA | Elmhurst, IL |
| AllCell Technologies | Chicago, IL |
| WaterSaver Faucet | Chicago, IL |
| ABET Industries | LaGrange Park, IL |
| Pipe Fitters Local 597 | Mokena |
| I.B.WE.W. Local 134 | Chicago, IL |
| Int. Assoc. of Machinists & Aerospace Workers | Hinsdale, IL |
| Dudek & Bock Spring MFG | Chicago, IL |
| Ferrara Candy Company | Bellwood, IL |
| ARYZTA | Cicero, IL |
| Freedman Seating | Chicago, IL |
| PEPSICO | Chicago , IL |
| Principal Manufacturing Corp. | Broadview |
| Focal Point Lighting | Chicago, IL |
| John Crane | Morton Grove, IL |
| Atlas Tool Works | Lyons, IL |
| Donson Machine Company | Alsip, IL |
| FANUC CNC | Hoffman Estates, IL |
| AIDEX Corp. | Rossville, IN |
| APT Manufacturing Solutions | Hicksville, OH |
| Carl Zeiss Microscopy, LLC | Thornwood, NY |
| Snap-On Tools | Kenosha, WI |
| Lincoln Electric | Cleveland, OH |
| Tower Automotive | Chicago, IL |
| Dart/Solo Cup Company | Chicago, IL |

| | |
|---|---|
| Chicago Cook Workforce Partnerships | Chicago, IL |
| A. Finkl & Sons Co. | Chicago, IL |
| Pactiv Corporation | Bedford Park, IL |

*Table 2: Projected Enrollments*

| **Industrial Supervision Eng Tech AAS** | **First Year** | **Second Year** | **Third Year** |
|---|---|---|---|
| Full-Time Enrollments: | 5 | 10 | 15 |
| Part-Time Enrollments: | 10 | 20 | 30 |
| Completions: | - | 5 | 15 |

**Financial / Budgetary Information**

The program will require three existing full-time and ten part-time faculty in the first year. Qualified faculty will hold at least an associate degree in Manufacturing Technology or closely related field for manufacturing classes, at least a bachelor in Engineering for engineering-technology classes, and at least a bachelor in Business, Management, or closely related field for supervision courses; at least one year work experience in manufacturing technology, one year of work experience at the supervisory or management level in an industrial setting; and one year of teaching experience is preferred. All facilities are in place to support the program and will share existing resources with the Manufacturing Technology programs currently being offered. The program will otherwise be supported fiscally through student tuition and fees.

*Table 3: Financial Information*

| | **First Year** | **Second Year** | **Third Year** |
|---|---|---|---|
| Faculty Costs | $0 | $0 | $0 |
| Administrator Costs | - | - | - |
| Other Personnel costs | - | - | - |
| Equipment Costs | - | - | - |
| Library/LRC Costs | - | - | - |
| Facility Costs* | - | - | - |
| Other | - | - | - |
| **TOTAL NEW COSTS** | **$0** | **$0** | **$0** |

*Table 4: Faculty Requirements*

| | **First Year** | | **Second Year** | | **Third Year** | |
|---|---|---|---|---|---|---|
| | Full-time | Part-time | Full-Time | Part-time | Full-Time | Part-time |
| New Faculty | 0 | 0 | 0 | 0 | 0 | 0 |
| Existing Faculty | 3 | 10 | 3 | 10 | 3 | 10 |

**Proposed Program Title:** Associate of Applied Science in Mechatronics Engineering Technology (61 credit hours)

**Program Purpose**

This program will prepare individuals entry-level employment in and for advancement into mechatronics engineering positions within industrial and/or manufacturing environments.

**Catalog Description**

The Associate of Applied Science (AAS) in Mechatronics Engineering Technology is for students who have completed the Advanced Certificate and are looking to further advance their skills in mechatronics engineering technology with additional instruction in automation and integration technologies. Industrial maintenance technicians are needed in every manufacturing production facility to maintain, repair, and install the equipment utilized in the production processes manufacturing companies utilize. In addition to careers in manufacturing facilities, this program will prepare you to pursue related careers in service, installing and modification of automation and production equipment. This degree will prepare individuals to pursue leadership positions on teams and projects, and to continue to pursue additional education. Graduates may progress onto bachelor's degree programs in Industrial Maintenance and transfer opportunities are available for those individuals interested.

**Curricular Information**

The AAS in Mechatronics Engineering Technology requires 16 credit hours of general education, and 45 credit hours of career and technical education coursework. The career and technical coursework include instruction in introductory/intermediate/advanced levels of advanced manufacturing, introductory/intermediate levels of robotics, manual machining, introductory CNC operations, GMAW welding skills, introductory/intermediate levels of industrial electricity, maintenance technology, computer-aided manufacturing (CAM), introductory/intermediate/ advanced levels of industrial PLCs, and process technology. Assessment of student learning will be achieved through evaluation of the student's performance on a comprehensive lab project. The proposed programs provide a continued educational ladder opportunity for students completing the College's recently approved Basic Certificates in Manufacturing Technology and CNC Technology.

**Accrediting Information**

Richard J. Daley College (the College) is accredited by the Higher Learning Commission. No specialized accreditation is required.

**Justification for Credit Hours Required**

This program exceeds 60 credit hours in total due to a required math course totaling four credit hours.

**Supporting Labor Market Data (including employer partners)**

Labor market information provided by the College supports the interest in and the need for programs in this field of study. According to the IDES, employment growth for industrial machinery mechanics and related occupations is expected to increase statewide by 5.74 percent through the year 2028.

*Table 1: Employer Partners*

| **Employer** | **Location** |
|---|---|
| Illinois Manufacturers Association | Springfield, IL |
| Bedford Park-Clearing Industrial Association | Bedford Park, IL |
| National Coalition of Certification Centers (NC3) | Pleasant Prairie, WI |
| Calumet Area Industrial Commission | Calumet City, IL |
| German American Chamber of Commerce of the Midwest | Chicago, IL |
| American Gear Manufacturer Association | Alexandria, VA |
| Southern Illinois University | Carbondale, IL |
| Dearborn Tool & Manufacturing | Burr Ridge, IL |
| S&C Electric | Chicago, IL |
| TempelSteel | Chicago, IL |
| UPS | Hodgkins, IL |
| Skolnik Industries | Chicago, IL |
| Worlds Fines Chocolate | Chicago, IL |
| Ed Miniat Foods | South Holland, IL |
| Chunichi Precision Molding USA | Elmhurst, IL |
| AllCell Technologies | Chicago, IL |
| WaterSaver Faucet | Chicago, IL |
| ABET Industries | LaGrange Park, IL |
| Pipe Fitters Local 597 | Mokena |
| I.B.WE.W. Local 134 | Chicago, IL |
| Int. Assoc. of Machinists & Aerospace Workers | Hinsdale, IL |
| Dudek & Bock Spring MFG | Chicago, IL |
| Ferrara Candy Company | Bellwood, IL |
| ARYZTA | Cicero, IL |
| Freedman Seating | Chicago, IL |
| PEPSICO | Chicago, IL |
| Principal Manufacturing Corp. | Broadview |
| Focal Point Lighting | Chicago, IL |
| John Crane | Morton Grove, IL |
| Atlas Tool Works | Lyons, IL |
| Donson Machine Company | Alsip, IL |
| FANUC CNC | Hoffman Estates, IL |
| AIDEX Corp. | Rossville, IN |
| APT Manufacturing Solutions | Hicksville, OH |
| Carl Zeiss Microscopy, LLC | Thornwood, NY |
| Snap-On Tools | Kenosha, WI |
| Lincoln Electric | Cleveland, OH |
| Tower Automotive | Chicago, IL |
| Dart/Solo Cup Company | Chicago, IL |
| Chicago Cook Workforce Partnerships | Chicago, IL |
| A. Finkl & Sons Co. | Chicago, IL |
| Pactiv Corporation | Bedford Park, IL |

*Table 2: Projected Enrollments*

| **Mechatronics Eng Tech AAS** | **First Year** | **Second Year** | **Third Year** |
|---|---|---|---|
| Full-Time Enrollments: | 5 | 10 | 15 |
| Part-Time Enrollments: | 10 | 20 | 30 |
| Completions: | - | 5 | 15 |

**Financial / Budgetary Information**

The program will require three existing full-time and ten part-time faculty in the first year. Qualified faculty will hold at least an associate degree in Manufacturing Technology or closely related field for manufacturing classes, and at least a bachelor's in engineering for engineering-technology classes; at least one year work experience in manufacturing technology; and one year of teaching experience is preferred. All facilities are in place to support the program and will share existing resources with the Manufacturing Technology programs currently being offered. The programs will otherwise be supported fiscally through student tuition and fees.

*Table 3: Financial Information*

| | **First Year** | **Second Year** | **Third Year** |
|---|---|---|---|
| Faculty Costs | $0 | $0 | $0 |
| Administrator Costs | - | - | - |
| Other Personnel costs | - | - | - |
| Equipment Costs | - | - | - |
| Library/LRC Costs | - | - | - |
| Facility Costs* | - | - | - |
| Other | - | - | - |
| **TOTAL NEW COSTS** | **$0** | **$0** | **$0** |

*Table 4: Faculty Requirements*

| | **First Year** | | **Second Year** | | **Third Year** | |
|---|---|---|---|---|---|---|
| | Full-time | Part-time | Full-Time | Part-time | Full-Time | Part-time |
| New Faculty | 0 | 0 | 0 | 0 | 0 | 0 |
| Existing Faculty | 3 | 10 | 3 | 10 | 3 | 10 |