Item #8.1
September 17, 2021

Illinois Community College Board

NEW UNITS OF INSTRUCTION

The Illinois Community College Board is requested to approve new units of instruction for the following community colleges:

RECOMMENDED ACTION

It is recommended that the following motion be adopted:

The Illinois Community College Board hereby approves the following new units of instruction for the community colleges listed below:

PERMANENT PROGRAM APPROVAL

Richard J. Daley College
- Industrial Supervision Engineering Technology A.A.S. degree (61 credit hours)
- Industrial Supervision Engineering Technology Certificate (30 credit hours)
- Mechatronics Engineering Technology A.A.S. degree (61 credit hours)
- Mechatronics Engineering Technology Certificate (30 credit hours)

College of DuPage
- Web Development A.A.S. degree (67 credit hours)

Illinois Valley Community College
- Dental Assisting A.A.S. degree (60 credit hours)

Heartland Community College
- Electric Vehicle Technology A.A.S. degree (60 credit hours)
- Electric Vehicle Technology Certificate (33 credit hours)
- Trades Management A.A.S. degree (60 credit hours)

Kennedy-King College
- Networking Systems and Technologies Associate in Applied Science (A.A.S) degree (61 credit hours)
- Networking Systems and Technologies Certificate (30 credit hours)

Olive-Harvey College
- Networking Systems and Technologies Associate in Applied Science (A.A.S) degree (61 credit hours)
- Networking Systems and Technologies Certificate (30 credit hours)

Harry S. Truman College
- Barbering A.A.S. degree (65 credit hours)
- Cosmetology A.A.S. degree (65 credit hours)

Item #8.1
September 17, 2021

BACKGROUND

Richard J. Daley College
Industrial Supervision Engineering Technology A.A.S. degree (61 credit hours)
Industrial Supervision Engineering Technology Certificate (30 credit hours)

Program Purpose: These programs will prepare individuals for advancement into supervisory employment in positions within industrial and/or manufacturing environments.

Catalog Description: Industrial Supervision Engineering Technology A.A.S. degree - This A.A.S. degree 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. This A.A.S. allows students to pursue further studies such as a Bachelor's degree programs in Industrial Management. Transfer opportunities are available for those individuals interested in pursuing further educational opportunities.

Industrial Supervision Engineering Technology Certificate - This program builds on the skills attained in the Basic Certificate in Computerized Numerical Control (CNC) Technology. Supervisors are the manufacturing company leaders that organize the production operations to achieve production goals, improvements, and targets. Students in this program will gain an understanding of production process, robotics, and quality assurance process to be able to be knowledgeable of the operations that they may be responsible for leading. Students take courses in production processes with hands on labs as well as in management, human resources, and supervision to be knowledgeable of the many facets involved with participating on or heling to lead a production or project team in a technical environment such as manufacturing.

Curricular Information: Industrial Supervision Engineering Technology A.A.S. degree - The curriculum includes 16 credit hours of required general education, and 45 credit hours of required career and technical education coursework. The career and technical component includes 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.

Industrial Supervision Engineering Technology Certificate – This curriculum includes a subset of the required courses from within the proposed degree totaling 30 credit hours. Career and technical coursework includes instruction in instruction in introductory/intermediate/advanced levels of advanced manufacturing, robotics, manual machining, introductory CNC operations, GMAW welding skills, business operations, supervision, and human resource management.

Assessment of student learning for both programs 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: NA.

Justification for Credit hours required: This program exceeds 60 credit hours in total due to a required math course totaling four (4) 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% 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
Industrial Supervision Eng Tech Cert	**First Year**	**Second Year**	**Third Year**

Full-Time Enrollments:	10	20	30
Part-Time Enrollments:	20	30	40
Completions:	5	20	35

Financial / Budgetary Information: The programs will require three (3) existing full-time and 10 part-time faculty the first year. Qualified faculty will hold at least an Associate's degree in Manufacturing Technology or closely related field for manufacturing classes, at least a Bachelor's degree in Engineering for engineering-technology classes, and at least a Bachelor's degree 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 adequately 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 (Combined)

	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 (Combined)

	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

Richard J. Daley College
Mechatronics Engineering Technology A.A.S. degree (61 credit hours)
Mechatronics Engineering Technology Certificate (30 credit hours)

Program Purpose: These programs will prepare individuals entry-level employment in and for advancement into mechatronics engineering positions within industrial and/or manufacturing environments.

Catalog Description: Mechatronics Engineering Technology A.A.S. degree - This A.A.S. degree 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 A.A.S. degree will prepare individuals to pursue leadership positions on teams and projects, and to continue to pursue additional education.

This A.A.S. allows students to pursue further studies such as a Bachelor's degree programs in Industrial Maintenance. Transfer opportunities are available for those individuals interested in pursuing further educational opportunities.

Mechatronics Engineering Technology Certificate - This program builds on the skills attained in the Basic Certificate in Computerized Numerical Control (CNC) Technology. The Advanced Certificate is for those students looking to work within industrial maintenance, the field of automation robotics, programmable logic controllers (PLCs), electrical and mechanical systems in manufacturing related industries repairing and maintaining these systems. Mechatronics skills are desired by manufacturers for roles in automating and maintaining production systems. Employers are looking for employees with these skills in the automated warehouse, automotive assembly and various automated manufacturing industries.

Curricular Information: Mechatronics Engineering Technology A.A.S. degree - The curriculum includes 16 credit hours of required general education, and 45 credit hours of required career and technical education coursework. The career and technical component includes 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.

Mechatronics Engineering Technology Certificate – This curriculum includes a subset of the required courses from within the proposed degree totaling 30 credit hours. Career and technical coursework includes instruction in 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, and introductory/intermediate/advanced levels of industrial PLCs.

Assessment of student learning for both programs 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: NA.

Justification for Credit hours required: This program exceeds 60 credit hours in total due to a required math course totaling four (4) 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 machinery mechanics" and related occupations is expected to increase statewide by 5.74% 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

Mechatronics Eng Tech Certificate	**First Year**	**Second Year**	**Third Year**
Full-Time Enrollments:	10	20	30
Part-Time Enrollments:	20	30	40
Completions:	5	20	35

Financial / Budgetary Information: The programs will require three (3) existing full-time and 10 part-time faculty the first year. Qualified faculty will hold at least an Associate's degree in Manufacturing Technology or closely related field for manufacturing classes, and at least a Bachelor's degree 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 adequately 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 (Combined)

	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 (Combined)

	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

College of DuPage
Web Development A.A.S. degree (67 credit hours)

Program Purpose: The program will prepare individuals for entry-level employment and advancement opportunities in web development.

Catalog Description: The Web Development A.A.S. degree 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 degree program requires 19 credit hours of general education coursework and 48 credit hours of career and technical education coursework. The career and technical component includes 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 for the degree: The proposed program meets the requirement for completion of an A.A.S. degree, including 18 credit hours of general education, at College of DuPage. Further, the curriculum includes the skills/content/coursework outlined by local employer's for graduates of the program to be successful in acquiring entry-level employment within the district.

Accrediting Information: NA.

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% statewide through 2028. The college currently offers a related Web Development Certificate program of which all 29 credit hours will ladder into the proposed A.A.S. degree.

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: Two (2) existing part-time faculty will be required to implement the program. 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
Dental Assisting A.A.S. degree (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 A.A.S. degree 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 A.A.S. General Education Package, similar to other A.A.S. degrees at IVCC 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 A.A.S. or Certificate in Dental Assisting will also hold the designation as an Expanded Functions Dental Assistants (EFDA). This is a designation that, in the state of Illinois, is currently only awarded to graduates of IVCC's Dental Assisting Programs.

Curricular Information: The degree program requires 19 credit hours of general education coursework and 41 credit hours of career and technical education coursework.

The career and technical component includes 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 Expanded Functions Dental Assistant (EFDA).

Justification for Credit hours required for the degree: The proposed degree uses the A.A.S. General Education Package, similar to other A.A.S. degrees at IVCC 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 Dental Hygiene Bachelor's of Science (B.S.) degree 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: IVCC aims to attain CODA accreditation for this program. As such the curriculum was designed to meet their requirements and standards including 300 clinical practice hours. CODA accreditation for the proposed Dental Assisting A.A.S. degree will allow students to transfer into CODA accredited dental hygiene bachelor's degree programs. Full accreditation of the program will be applied for once 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 Illinois Department of Employment Security (IDES), employment of "dental assistants" is projected to increase by 4% statewide through 2028. The college currently offers a related Basic Dental Office Management Certificate (8.5 credit hours), and an Advanced Dental Office Management Certificate (8.5 credit hours) both of which fully ladder into the proposed A.A.S. degree.

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: One (1) existing part-time faculty and three (3) existing part-time faculty will be required to implement the program. 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's 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
Electric Vehicle Technology A.A.S. degree (60 credit hours)
Electric Vehicle Technology Certificate (33 credit hours)

Program Purpose: These programs meet 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: Electric Vehicle Technology A.A.S. degree – The 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 A.A.S. and Certificates 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.

Electric Vehicle Technology Certificate - The Electric Vehicle Technology Certificate prepares students for entry-level employment or upskill opportunities in the field of manufacturing, diagnosis, service, and repair of electric powered vehicles through intensive training on electric vehicle systems and components.

The Electric Vehicle Technology Certificate will be earned by individuals completing the EV Technology A.A.S. program and can be completed as an upskill opportunity for those with traditional automotive industry-recognized credentials and/or an existing A.A.S. in Automotive Technology for specialization as an Electric Vehicle Technician.

Curricular Information: Electric Vehicle Technology A.A.S. degree - The curriculum includes 16 credit hours of required general education, and 44 credit hours of required career and technical education coursework. The career and technical component 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.

Electric Vehicle Technology Certificate – This curriculum includes a subset of the required courses from within the proposed degree totaling 33 credit hours. Career and technical coursework includes instruction in business communications, DC electronics, AC electronics, digital electronics and microprocessors, introductory electric vehicle technology, braking systems 2, steering and suspension systems 2, climate control and thermal management, electrical and chassis control systems 2, high voltage architecture, battery technologies, and an internship in electric vehicle technology.

The proposed degree and certificate 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.

Assessment of student learning for both programs 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 programs provide 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: Accreditation is not required for students to sit for certification exams.

Justification for Credit hours required: The certificate program exceeds 30 credit hours in total due to the required Business Communications and Internship courses. The Business Communications course is included in both related (Basic) Certificates, thus students earning those stackable certificates will have earned those credit hours in prior coursework. The Internship was added to the proposed Certificate program based on the recommendation of Advisory Committee members and local employers.

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 5% 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

Electric Vehicle Tech Certificate	First Year	Second Year	Third Year
Full-Time Enrollments:	18	32	32
Part-Time Enrollments:	-	-	-
Completions:	12	16	24

Financial / Budgetary Information: The programs will require one (1) new full-time, three (3) existing full-time, and one (1) 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, Automotive Service Excellence (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 programs will otherwise be supported fiscally through student tuition and fees.

Table 3: Financial Information (Combined)

	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 (Combined)

	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

Heartland Community College
Trades Management A.A.S. degree (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 Trades Management A.A.S. program 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 degree program 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).

Justification for Credit hours required for the degree: NA.

Accrediting Information: NA.

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 first-line supervisors and managers in construction trades-related occupations is projected to increase by 2.9% statewide through 2028. The college currently offers a related Technical Skills Certificate program of which all existing credit hours will ladder into the proposed A.A.S. degree.

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 (2) 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's 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
Networking Systems and Technologies A.A.S. degree (61 credit hours)
Networking Systems and Technologies Certificate (30 credit hours)

Program Purpose: These programs will prepare individuals for entry-level employment and advancement opportunities in the field of information technology, specifically related to networking systems technologies.

Catalog Description: Networking Systems and Technologies A.A.S. degree - The Networking Systems and Technologies A.A.S. program 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. It also offers students relevant knowledge and skills required in a variety of industry certifications including A+, Network+, CCENT, CCNA, and CCNA Security.

Networking Systems and Technologies Certificate – The Networking Systems and Technologies Advanced Certificate program is for students interested in pursuing entry-level employment in network technician capacity. The program builds on the content and coursework required for completion of the Basic Certificate in Networking Systems and Technologies. Coursework in the AC will allow students to sit for multiple industry credentials.

Curricular Information: Networking Systems and Technologies A.A.S. degree – The curriculum includes 16 credit hours of required 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), 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.

Networking Systems and Technologies Certificate – The AC curriculum includes 30 credit hours of coursework required in the degree program and builds off existing coursework required for completion of the Basic Certificate. 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. The curriculum was developed according to industry guidelines that will prepare individuals for credentials in CompTIA Network+ and Cisco Certified Network Administrator (CCNA).

Accrediting Information: NA.

Justification for Credit hours required: This program exceeds 60 credit hours in total due to a required math course totaling four (4) 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 5% 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

Networking Systems & Tech Certificate	First Year	Second Year	Third Year
Full-Time Enrollments:	5	7	8
Part-Time Enrollments:	7	8	8
Completions:	10	12	14

Financial / Budgetary Information: The programs will require three (3) existing full-time and one (1) new part-time faculty 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 adequately in place to support the program and will share existing resources with the Information Technology programs currently being offered. The programs will otherwise be supported fiscally through student tuition and fees.

Table 3: Financial Information (Combined)

	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 (Combined)

	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

Item #8.1
September 17, 2021

Olive-Harvey College
Networking Systems and Technologies A.A.S. degree (61 credit hours)
Networking Systems and Technologies Certificate (30 credit hours)

Program Purpose: These programs will prepare individuals for entry-level employment and advancement opportunities in the field of information technology, specifically related to networking systems technologies.

Catalog Description: Networking Systems and Technologies A.A.S. degree - The Networking Systems and Technologies A.A.S. program 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. It also offers students relevant knowledge and skills required in a variety of industry certifications including A+, Network+, CCENT, CCNA, and CCNA Security.

Networking Systems and Technologies Certificate – The Networking Systems and Technologies Advanced Certificate program is for students interested in pursuing entry-level employment in network technician capacity. The program builds on the content and coursework required for completion of the Basic Certificate in Networking Systems and Technologies. Coursework in the AC will allow students to sit for multiple industry credentials.

Curricular Information: Networking Systems and Technologies A.A.S. degree – The curriculum includes 16 credit hours of required 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), 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.

Networking Systems and Technologies Certificate – The AC curriculum includes 30 credit hours of coursework required in the degree program and builds off existing coursework required for completion of the Basic Certificate. 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. The curriculum was developed according to industry guidelines that will prepare individuals for credentials in CompTIA Network+ and Cisco Certified Network Administrator (CCNA).

Accrediting Information: NA.

Justification for Credit hours required: This program exceeds 60 credit hours in total due to a required math course totaling four (4) 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 5% 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

Networking Systems & Tech Certificate	First Year	Second Year	Third Year
Full-Time Enrollments:	5	7	8
Part-Time Enrollments:	7	8	8
Completions:	10	12	14

Financial / Budgetary Information: The programs will require one (1) existing full-time, three (3) existing part-time, and one (1) new part-time faculty 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 adequately in place to support the program and will share existing resources with the Information Technology programs currently being offered. The programs will otherwise be supported fiscally through student tuition and fees.

Table 3: Financial Information (Combined)

	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 (Combined)

	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
Barbering A.A.S. degree (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 degree 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 Barbering A.A.S. degree program, students will also complete general education courses that include English composition, mathematics, computer information science, and business courses.

Curricular Information: Barbering A.A.S. degree - 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 component includes 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 Illinois Department of Financial and Professional Regulation (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: The program must be approved by 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 A.A.S. 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 2.1% 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 (1) existing full-time and four (4) existing part-time faculty 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 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

Harry S. Truman College
Cosmetology A.A.S. degree (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 (A.A.S.) degree 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 best 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 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 Cosmetology A.A.S. degree program, students will also complete general education courses that include English composition, mathematics, computer information science, and business courses.

Curricular Information: Cosmetology A.A.S. degree - 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 component includes 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 Illinois Department of Financial and Professional Regulation (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: The program must be approved by 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 A.A.S. 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 cosmetology is expected to increase statewide around 2.1% 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 (1) existing full-time and four (4) existing part-time faculty 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 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