

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

Frontier Community College

- Medical Laboratory Technician Associate in Applied Science (A.A.S.) degree (69 credit hours)

Kennedy-King College

- Cybersecurity A.A.S. degree (60 credit hours)
- Cybersecurity Advanced Certificate (30 credit hours)

Lake Land College

- Automotive Mechanics A.A.S. degree (63.5 credit hours)
- Automotive Mechanics Certificate (47.5 credit hours)

McHenry County College

- Hospitality Marketing Specialist Certificate (36 credit hours)
- Assistant Restaurant Manager Certificate (30 credit hours)

Morton College

- Advanced Welding Certificate (37 credit hours)

Olive-Harvey College

- Cybersecurity A.A.S. degree (60 credit hours)
- Cybersecurity Advanced Certificate (30 credit hours)

Olney-Central College

- Unmanned Aerial Technology A.A.S. degree (60 credit hours)
- Welding and Fabrication A.A.S. degree (60 credit hours)

South Suburban College

- Barbering A.A.S. degree (65 credit hours)
- Barbering Technician Certificate (50 credit hours)

BACKGROUND

Frontier Community College

Medical Laboratory Technician A.A.S. degree (69 credit hours)

Program Purpose: The program will prepare individuals for entry-level employment or advancement opportunities as a medical laboratory technician.

Catalog Description: Frontier Community College's Medical Laboratory Technician (MLT) program prepares the graduate to assume responsibility in various laboratory settings, medical or non-medical, clinical diagnostic or research, hospital or reference laboratories. The MLT program culminates in an Associate of Applied Science degree. Graduates of the program are eligible for national certification. All potential students must take the prescribed general education classes. Core classes in Chemistry, Hematology, Serology, Immunohematology, and Microbiology study human diseases and laboratory tests that identify them. Students learn to operate equipment in medical laboratories and perform a wide range of procedures. Didactic and clinical instruction emphasize proper specimen collection and handling, understanding testing procedures, safety, quality control, acquisition of technical skills, and troubleshooting techniques.

Curricular Information: The degree program requires 17 credit hours of general education coursework, 46 credit hours of required career and technical education coursework, and six (6) credit hours of required clinical practical experience. Career and technical coursework includes instruction in human anatomy and physiology, chemistry and clinical chemistry, microbiology and clinical microbiology, introductory clinical laboratory, hematology and hemostasis, immunohematology, advanced clinical chemistry, advanced clinical microbiology, advanced hematology and hemostasis, serology/immunology, professional seminar, and a clinical practicum in medical lab technology. Assessment of student learning will be achieved through evaluation of the student's performance during the work-based learning experience. The curriculum was developed according to standards of the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) and will prepare graduates for optional certification as a Medical Laboratory Technician (MLT) through the American Society for Clinical Pathology (ASCP) or through the American Medical Technologists (AMT) association.

Justification for Credit hours required for the degree: The program was developed according to program accreditation standards and industry credentialing requirements. As such the general education component reflects necessary pre-requisites to various courses required in the career and technical component of the curriculum. Accreditation standards require several science courses with laboratory components and two clinical internship experiences.

Accrediting Information: The National Accrediting Agency for Clinical Laboratory Science (NAACLS) accredits medical laboratory technician programs. The college has been working with the NAACLS to meet accreditation standards. Once the program has received all appropriate State approvals the college can move forward in the accreditation process.

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), overall growth in employment of "Clinical/Medical Laboratory Technicians" is expected to increase by 5.9% Statewide through 2026.

Table 1: Employer Partners

| Employer | Location |
|--|-----------------|
| Fairfield Memorial Hospital | Fairfield, IL |
| Hamilton Memorial Hospital | McLeansboro, IL |
| Crawford Memorial Hospital | Robinson, IL |
| Memorial Hospital & Health Care Center | Jasper, IN |
| Wabash General Hospital | Mt. Carmel, IL |
| Paris Community Hospital | Paris, IL |
| Gibson General Hospital | Princeton, IN |
| Clay County Hospital | Flora, IL |
| Good Samaritan Hospital | Vincennes, IN |
| St. Anthony's Hospital | Effingham, IL |

Table 2: Projected Enrollments

| Medical Lab Tech AAS | First Year | Second Year | Third Year |
|------------------------|------------|-------------|------------|
| Full-Time Enrollments: | 15 | 15 | 15 |
| Part-Time Enrollments: | 0 | 0 | 0 |
| Completions: | 0 | 12 | 12 |

Financial / Budgetary Information: One (1) new full-time faculty will be necessary to implement the program with an additional part-time faculty added during year two. Faculty qualifications are dependent upon courses being taught. Qualified faculty must hold at least an Associate's degree with current ASCP-MLT certification and three years related work experience; the program coordinator must hold a Master's degree in Medical Laboratory Technology with current ASCP-MLT/MT/BOC certification, two years related work experience and one year teaching experience preferred. Some equipment purchases and facilities upgrades have been budgeted for during the first three years of operation. The programs were developed and will be supported with Title III Grant Funds through the first three years of implementation. Grant funds cover the cost of faculty, personnel, equipment, and facilities upgrades. The program will also benefit from a generous equipment donation of a local employer. The program will be fiscally supported through student tuition and fees.

Table 3: Financial Information

| | First Year | Second Year | Third Year |
|------------------------|------------------|------------------|-----------------|
| Faculty Costs | \$42,150 | \$43,415 | \$44,717 |
| Administrator Costs | \$200 | \$300 | \$400 |
| Other Personnel Costs | - | \$6,300 | \$16,800 |
| Equipment Costs | \$66,737 | \$96,622 | \$18,000 |
| Library/LRC Costs | - | - | - |
| Facility Costs* | \$108,003 | - | - |
| Other (specify) | - | - | - |
| TOTAL NEW COSTS | \$217,090 | \$146,637 | \$79,917 |

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 | 0 | 1 | 0 | 0 |
| Existing Faculty | 0 | 0 | 1 | 0 | 1 | 1 |

Kennedy-King College

Cybersecurity A.A.S. degree (60 credit hours)

Cybersecurity Advanced Certificate (30 credit hours)

Program Purpose: These programs will prepare individuals for entry-level employment, and advancement opportunities, as cybersecurity specialists in a variety of settings.

Catalog Description: Cybersecurity A.A.S. degree - The Cybersecurity Associate in Applied Science (AAS) program provides the required knowledge and skill set for students pursuing entry-level career opportunities in Cybersecurity. With a hands-on approach to learning in this program, students acquire comprehensive Cybersecurity technical knowledge and skills required in entry-level Cybersecurity jobs. The AAS program courses provide an integrated education for cybersecurity professional needs and include a practical work-based learning component, configuring and administering cloud computing infrastructures and applications, and engaging in Information Security systems analysis.

Cybersecurity Advanced Certificate - The Cybersecurity Advanced Certificate (AC) program provides knowledge and skill set for students pursuing career opportunities in Cybersecurity. With a hands-on approach to learning in this program, students who complete the Cybersecurity Basic Certificate (BC) continue the study of essential to Cybersecurity technical knowledge and skills relating to using and administering network devices and network operating systems, and practicing ethical hacking. Students also learn to script and code to monitor, protect against, contain, respond to and recover from cyberattacks. This program serves as a transitional (stackable) credential towards the Cybersecurity AAS degree and offers an enhanced skill set for current IT students and professionals in other areas.

Curricular Information: Cybersecurity A.A.S. degree - The curriculum includes 15 credit hours of required general education, 36 credit hours of required career and technical education coursework, and nine (9) credit hours of related technical electives. The career and technical component includes instruction in fundamentals of programming, introductory and advanced operating systems, operating systems server, networking essentials, introductory and advanced internetworking, cloud computing and services, information security essentials, cybercrime and incident response, scripting for cybersecurity, ethical hacking, a required field project or internship in cybersecurity, and information technology electives specifically related to cybersecurity.

Cybersecurity Advanced Certificate – This curriculum includes a subset of the required courses from within the proposed degree totaling 27 credit hours and an additional three (3) credit hours in related IT electives.

Assessment of student learning in both programs will be achieved through evaluation of the student's performance on either the comprehensive field project or the internship experience. The program will prepare graduates for industry credentialing in CompTIA Server+, Cloud+, and CySA+, with additional options for credentialing offered within the available electives. The proposed programs provide a continued educational ladder opportunity for students completing the College's recently approved Basic-level Certificate in Cybersecurity.

Accrediting Information: The college plans to seek optional program accreditation through the Accreditation Board for Engineering and Technology (ABET) once at least one class of students has graduated the programs.

Justification for Credit hours required: NA.

Supporting Labor Market Data (including employer partners): Labor market information provided by the college supports the interest in and the need for a degree program in this field of study. According to the Illinois Department of Employment Security (IDES), employment growth in related cybersecurity occupations is expected to increase statewide between 6.6 – 22.9% through the year 2026.

Table 1: Employer Partners

| Employer | Location |
|------------------|-----------------|
| Accenture | Chicago, IL |
| OnShore Security | Chicago, IL |
| SDI Presence LLC | Chicago, IL |
| Trustwave | Chicago, IL |

Table 2: Projected Enrollments

| Cybersecurity AAS degree | First Year | Second Year | Third Year |
|---------------------------------|-------------------|--------------------|-------------------|
| Full-Time Enrollments: | 10 | 24 | 32 |
| Part-Time Enrollments: | 4 | 10 | 16 |
| Completions: | - | 7 | 16 |

| Cybersecurity Certificate | First Year | Second Year | Third Year |
|----------------------------------|-------------------|--------------------|-------------------|
| Full-Time Enrollments: | 10 | 15 | 20 |
| Part-Time Enrollments: | 5 | 8 | 10 |
| Completions: | - | 6 | 15 |

Financial / Budgetary Information: The programs will require one (1) existing full-time and one to two part-time faculty (one new, one existing) the first year. All facilities are adequately in place to support the program and will share existing resources with the Information Technology programs currently being offered. Some new equipment purchases, software licenses and hardware upgrades have been budgeted for during the first three years. 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 | \$29,000 | \$59,994 | \$154,945 |
| Administrator Costs | - | - | - |
| Other Personnel costs | \$35,200 | \$36,256 | \$37,344 |
| Equipment Costs | \$5,500 | \$12,000 | \$10,000 |
| Library/LRC Costs | - | - | - |
| Facility Costs* | - | - | - |
| Other (Software licenses) | \$13,250 | \$13,250 | \$13,250 |
| TOTAL NEW COSTS | \$82,950 | \$121,500 | \$215,539 |

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 | 1 | 0 | 1 | 1 | 0 |
| Existing Faculty | 1 | 1 | 1 | 2 | 1 | 3 |

Lake Land College

Automotive Mechanics A.A.S. degree (63.5 credit hours)

Automotive Mechanics Certificate (47.5 credit hours)

Program Purpose: These programs will prepare individuals for entry-level employment as automotive mechanics.

Catalog Description: Automotive Mechanics Certificate – This program is designed for Illinois Department of Corrections participants who have completed both the Automotive Service Technician Certificate and the Automotive Repair Technician Certificate and are interested in entry- to mid-level positions in the automotive service industry, upon release. The curriculum builds on the prior certificates’ skills and further emphasizes the technical and workplace skills required to work as an automotive mechanic diagnosing and completing major repairs.

Automotive Mechanics A.A.S. degree - This program is designed for Illinois Department of Corrections participants who have completed the Automotive Service Technician Certificate, the Automotive Repair Technician Certificate, and the Automotive Mechanics Certificate and are interested in pursuing an associate’s degree to prepare for entry- to mid-level positions in the automotive service industry, upon release. The curriculum will building on the prior certificates’ technical training to include general education applicable to working in this field.

Curricular Information: Automotive Mechanics A.A.S. degree - The curriculum includes 16 credit hours of required general education, and 47.5 credit hours of required career and technical education coursework. The career and technical component includes instruction in introductory auto service, vehicle fundamentals, basic vehicle service, vehicle electrical systems, steering/suspension and alignment, basic brake systems, vehicle heating & cooling systems, engine performance, engine rebuilding, and new vehicle technology.

Automotive Mechanics Certificate – This curriculum includes a subset of the required career and technical educational courses from within the proposed degree totaling 47.5 credit hours.

Assessment of student learning in both programs will be achieved through evaluation of the student’s performance during their automotive service laboratory by the program faculty.

Accrediting Information: Accreditation is not required, however, the curriculum will prepare individuals for Automotive Service Excellence (ASE) industry certifications in Engine Repair, Transmission/Transaxle, Suspension & Steering, Brakes, Electrical/Electronic Systems, Heating & Air Conditioning, and Engine Performance.

Justification for Credit hours required: Both curricula build on existing certificates to add both more advanced skill training and general education. The curricula includes additional laboratory content for

IDOC participants who do not have access to real world work-based learning content in order to prepare students for industry credentialing.

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 of “automotive service technicians/mechanics” is expected to increase statewide around 4% through the year 2026.

Table 1: Employer Partners

| Employer | Location |
|------------------------------------|------------------------|
| Illinois Department of Corrections | Multiple locations, IL |

Table 2: Projected Enrollments

| Auto Mechanics AAS degree | First Year | Second Year | Third Year |
|----------------------------------|-------------------|--------------------|-------------------|
| Full-Time Enrollments: | 50 | 60 | 60 |
| Part-Time Enrollments: | - | - | - |
| Completions: | 25 | 30 | 30 |

| Auto Mechanics Certificate | First Year | Second Year | Third Year |
|-----------------------------------|-------------------|--------------------|-------------------|
| Full-Time Enrollments: | 80 | 90 | 90 |
| Part-Time Enrollments: | - | - | - |
| Completions: | 45 | 55 | 55 |

Financial / Budgetary Information: The programs will require seven (7) existing full-time faculty. Qualified faculty will hold an Associate’s degree and/or at least 5 years work experience as an automotive service technician, hold ASE certification as appropriate for the course/content, and one year teaching experience. Facilities and equipment are adequately in place to support the proposed programs. All costs are covered through Illinois Department of Corrections Grant Funds.

Table 3: Financial Information (Combined)

| | First Year | Second Year | Third Year |
|------------------------|-------------------|--------------------|-------------------|
| Faculty Costs | \$319,100 | \$322,291 | \$322,291 |
| Administrator Costs | - | - | - |
| Other Personnel costs | - | - | - |
| Equipment Costs | - | - | - |
| Library/LRC Costs | - | - | - |
| Facility Costs* | - | - | - |
| Other | - | - | - |
| TOTAL NEW COSTS | \$319,100 | \$322,291 | \$322,291 |

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 | 7 | 0 | 7 | 0 | 7 | 0 |

McHenry County College

Assistant Restaurant Manager Certificate (30 credit hours)

Hospitality Marketing Specialist Certificate (36 credit hours)

Program Purpose: Assistant Restaurant Manager Certificate – This program will prepare individuals for entry-level employment and advancement opportunities, as supervisory/management staff in restaurant and related hospitality settings.

Hospitality Marketing Specialist Certificate – This program will prepare individuals with hospitality or marketing experience, or those currently in hospitality or marketing training programs, with added knowledge in using social media for specifically marketing hospitality services and products. The program will prepare for entry-level employment, advanced within the field, and/or cross-training opportunities.

Catalog Description: The hospitality & food service industry is one segment of the largest employment field in the world- travel and tourism. Students can prepare for this growing field through MCC's Culinary programs and obtain additional industry certification by completing National Restaurant Association Educational Foundation (NRAEF) classes.

These programs give students the knowledge and hands-on skills needed for entry-level positions within various settings of the food service industry. Courses are designed to build a strong culinary foundation, with an emphasis on leadership and management skills, sustainable practices and food safety skills.

Please visit www.mchenry.edu/culinary to see important program information including: the culinary student code of conduct, attendance expectations, culinary specific scholarships and current transfer agreements to 4-year Baccalaureate programs.

Curricular Information: Assistant Restaurant Manager Certificate – The curriculum consists of 26 credit hours of required career and technical education coursework and four (4) credit hours of required work-based learning. The career and technical component includes instruction in introductory professional hospitality, culinary skills, pastry skills, culinary supervision, cross-cultural management, creative leadership and an internship experience in both restaurant operations and bakery operations.

Hospitality Marketing Specialist Certificate – The curriculum consists of 26 credit hours of required career and technical education coursework, four (4) credit hours of required work-based learning, and six (6) credit hours of related technical electives. The career and technical component includes instruction in introductory professional hospitality, culinary skills, pastry skills, culinary supervision, menu planning, social media marketing, an internship experience in both restaurant operations and bakery operations, and marketing electives.

Students who complete the Assistant Restaurant Manager Certificate would be able to earn the Hospitality Marketing Specialist Certificate with four (4) additional courses. The programs were developed according to guidelines that will prepare students for optional industry credentialing through the National Restaurant Association Educational Foundation (NRAEF) and ManageFirst, Inc. as a ManageFirst Professional (MFP) or Foodservice Management Professional (FMP).

Assessment of student learning in both programs will be achieved through evaluation of the student's performance during the work-based learning component. The programs will utilize the college's existing bakery and full-service restaurant. Students will be evaluated by program faculty and work-site supervisor.

Accrediting Information: NA.

Justification for Credit hours required: Hospitality Marketing Specialist Certificate – The curriculum was developed according to both advisory committee input, which includes representatives of a variety of local hospitality employers, and input from the college's marketing department so that it would prepare for employment, and stack well with existing culinary/hospitality and marketing certificate and degree programs. The advisory committee felt strongly the inclusion of the additional elective options would best prepare students for employment in this industry.

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 culinary arts and marketing is expected to increase between 6.4-16% for culinary occupations and by 8.6% for food service and marketing occupations statewide through the year 2026.

Table 1: Employer Partners

| Employer | Location |
|-----------------------------------|-----------------------|
| Ambrosia Euro American Patisserie | Barrington, IL |
| Around the Clock Restaurant | Crystal Lake, IL |
| Blackstone Golf Club | Marengo, IL |
| Bull Valley Golf Club | Woodstock, IL |
| Chalet Hills Club | Road, Cary, IL |
| Client-rewards.net | Crystal Lake, IL |
| Coleman's catering | Crystal Lake, IL |
| Conscious Cup Roasters & Café | Crystal Lake, IL |
| Crystal Lake Brewing | Crystal Lake, IL |
| Crystal Lake Brewing | Crystal Lake, IL |
| Duke's Alehouse and Kitchen | Crystal Lake, IL |
| Georgio's Pizza | Crystal Lake, IL |
| Georgio's Pizza | South Barrington, IL |
| Homemade Mama | Crystal Lake, IL |
| Iron Horse Bar & Grille | Algonquin, IL |
| Nicks Pizza and Pub | Lake, IL |
| Region | Barrington, IL |
| Scorched Earth Brewing Co. | Algonquin, IL |
| Shadowview Brewing | Woodstock, IL |
| SweetPea Cakes Studio | Crystal Lake, IL |
| The Sugar Circle | Woodstock, IL |
| Uprooted | McHenry, IL |
| Village Vintner | Algonquin, IL |
| Winebow/Vintage Wines | Crystal Lake, IL |
| Woods creek Tavern | Lake In The Hills, IL |

Table 2: Projected Enrollments

| Assistant Restaurant Manager Cert | First Year | Second Year | Third Year |
|--|-------------------|--------------------|-------------------|
| Full-Time Enrollments: | 5 | 10 | 12 |
| Part-Time Enrollments: | 2 | 5 | 5 |
| Completions: | 7 | 15 | 17 |

| Hospitality Marketing Spec Cert | First Year | Second Year | Third Year |
|--|-------------------|--------------------|-------------------|
| Full-Time Enrollments: | 5 | 10 | 10 |
| Part-Time Enrollments: | 2 | 5 | 5 |
| Completions: | 7 | 15 | 15 |

Financial / Budgetary Information: The programs will require two (2) existing part-time faculty the first year. Qualified faculty will have an Associate’s degree in Culinary Arts or a hospitality-related field, hold current industry credentialing in their related area, have at least five years work experience, and one year teaching experience preferred. All facilities and equipment are adequately in place to support the programs. No new costs are anticipated to implement these programs. The programs will 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 | 0 | 0 | 0 |
| Other Personnel costs | 0 | 0 | 0 |
| Equipment Costs | 0 | 0 | 0 |
| Library/LRC Costs | 0 | 0 | 0 |
| Facility Costs* | 0 | 0 | 0 |
| Other | 0 | 0 | 0 |
| 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 | 0 | 2 | 0 | 2 | 0 | 2 |

Morton College

Advanced Welding Certificate (38 credit hours)

Program Purpose: The certificate will prepare individuals for entry-level and advanced employment as welders in a variety of settings.

Catalog Description: This program prepares students for employment in a variety of welding fields. Students are taught Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), and Gas Tungsten Arc Welding (GTAW) along with oxyfuel and plasma cutting processes. Additional training in welding metallurgy, blueprint reading, and welding machines will be taught as well. Students in an entry-level position completing this certificate are able to seek career advancement.

Curricular Information: The program requires three (3) credit hours of general education coursework, 31 credit hours of career and technical education coursework, and four (4) credit hours of related technical electives. The career and technical component includes instruction in introductory welding processes, basic arc welding and cutting, beginning and advanced SMAW and cutting, beginning and advanced GMAW, beginning and advanced GTAW, pipe welding, blueprint reading, welding and cutting safety, welding inspection, and practical experience in welding. Students who complete the welding course sequence are eligible to sit for the American Welding Society (AWS) certifications that cover four various individual

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structural steel codes. The college currently offers several shorter-term certificates in welding which ladder into the proposed advanced certificate program. Assessment of student learning will be achieved through evaluation of the student’s performance during comprehensive individual skill assessment.

Justification for Credit hours required: The curriculum was developed according to standards of the American Welding Society to prepare individuals for AWS industry certifications.

Accrediting Information: Program accreditation is not required, however, welding courses have been developed according to the American Welding Society (AWS) standards.

Supporting Labor Market Data (including employer partners): Labor market information provided by the college supports the need for training program in this field of study. According to the Illinois Department of Employment Security (IDES), growth in the employment of “welders” is expected to increase by 4.9% statewide through the year 2026.

Table 1: Employer Partners

| Employer | Location |
|-------------------------|---------------|
| Technoweld | New Lenox, IL |
| United Scrap Metal | Cicero, IL |
| Boilermakers Local 1 | Chicago IL |
| Pipefitters Local 597 | Mokena, IL |
| Piledrivers Local 54 | Hinsdale, IL |
| J&B Welding Supply Inc | Cicero, IL |
| Chicago Women in Trades | Chicago, IL |

Table 2: Projected Enrollments

| Advanced Welding Certificate | First Year | Second Year | Third Year |
|------------------------------|------------|-------------|------------|
| Full-Time Enrollments: | 5 | 9 | 11 |
| Part-Time Enrollments: | 4 | 8 | 10 |
| Completions: | 8 | 15 | 20 |

Financial / Budgetary Information: The program requires one (1) new full-time faculty, one (1) existing full-time faculty, and two (2) new part-time faculty. Qualified faculty hold an Associate’s degree in Welding and/or five years related work experience, AWS certification, and three years teaching experience. Some equipment purchases, consumables (such as welding gas), and facilities upgrades have been budgeted for during the first three years of operation. The programs will otherwise be supported by student tuition and fees.

Table 3: Financial Information (Combined)

| | First Year | Second Year | Third Year |
|---------------------------|------------------|-------------------|------------------|
| Faculty Costs | \$83,443 | \$83,443 | \$98,664 |
| Administrator Costs | \$3,000 | \$3,000 | \$4,000 |
| Other Personnel costs | - | - | - |
| Equipment Costs | \$200,000 | \$5,000 | \$2,500 |
| Library/LRC Costs | - | - | - |
| Facility Costs (upgrades) | \$1,100 | \$5,000 | \$5,000 |
| Other (welding supplies) | \$11,000 | \$12,000 | \$12,000 |
| TOTAL NEW COSTS | \$298,543 | \$103, 443 | \$122,164 |

Table 4: Faculty Requirements (Combined)

| | <u>First Year</u> | | <u>Second Year</u> | | <u>Third Year</u> | |
|------------------|-------------------|------------------|--------------------|------------------|-------------------|------------------|
| | <u>Full-Time</u> | <u>Part-time</u> | <u>Full-Time</u> | <u>Part-time</u> | <u>Full-Time</u> | <u>Part-time</u> |
| New Faculty | 1 | 2 | 0 | 2 | 1 | 3 |
| Existing Faculty | 1 | 0 | 2 | 2 | 2 | 4 |

Olive-Harvey College

Cybersecurity A.A.S. degree (60 credit hours)

Cybersecurity Advanced Certificate (30 credit hours)

Program Purpose: These programs will prepare individuals for entry-level employment, and advancement opportunities, as cybersecurity specialists in a variety of settings.

Catalog Description: Cybersecurity A.A.S. degree - The Cybersecurity Associate in Applied Science (AAS) program provides the required knowledge and skill set for students pursuing entry-level career opportunities in Cybersecurity. With a hands-on approach to learning in this program, students acquire comprehensive Cybersecurity technical knowledge and skills required in entry-level Cybersecurity jobs.

The AAS program courses provide an integrated education for cybersecurity professional needs and include a practical work-based learning component, configuring and administering cloud computing infrastructures and applications, and engaging in Information Security systems analysis.

Cybersecurity Advanced Certificate - The Cybersecurity Advanced Certificate (AC) program provides knowledge and skill set for students pursuing career opportunities in Cybersecurity. With a hands-on approach to learning in this program, students who complete the Cybersecurity Basic Certificate (BC) continue the study of essential to Cybersecurity technical knowledge and skills relating to using and administering network devices and network operating systems, and practicing ethical hacking. Students also learn to script and code to monitor, protect against, contain, respond to and recover from cyberattacks. This program serves as a transitional (stackable) credential towards the Cybersecurity AAS degree and offers an enhanced skill set for current IT students and professionals in other areas.

Curricular Information: Cybersecurity A.A.S. degree - The curriculum includes 15 credit hours of required general education, 36 credit hours of required career and technical education coursework, and nine (9) credit hours of related technical electives. The career and technical component includes instruction in fundamentals of programming, introductory and advanced operating systems, operating systems server, networking essentials, introductory and advanced internetworking, cloud computing and services, information security essentials, cybercrime and incident response, scripting for cybersecurity, ethical hacking, a required field project or internship in cybersecurity, and information technology electives specifically related to cybersecurity.

Cybersecurity Advanced Certificate – This curriculum includes a subset of the required courses from within the proposed degree totaling 27 credit hours and an additional three (3) credit hours in related IT electives.

Assessment of student learning in both programs will be achieved through evaluation of the student's performance on either the comprehensive field project or the internship experience. The program will prepare graduates for industry credentialing in CompTIA Server+, Cloud+, and CySA+, with additional options for credentialing offered within the available electives. The proposed programs provide a continued

educational ladder opportunity for students completing the College's recently approved Basic-level Certificate in Cybersecurity.

Accrediting Information: The college plans to seek optional program accreditation through the Accreditation Board for Engineering and Technology (ABET) once at least one class of students has graduated the programs.

Justification for Credit hours required: NA.

Supporting Labor Market Data (including employer partners): Labor market information provided by the college supports the interest in and the need for a degree program in this field of study. According to the Illinois Department of Employment Security (IDES), employment growth in related cybersecurity occupations is expected to increase statewide between 6.6 – 22.9% through the year 2026.

Table 1: Employer Partners

| Employer | Location |
|------------------|-------------|
| Accenture | Chicago, IL |
| OnShore Security | Chicago, IL |
| SDI Presence LLC | Chicago, IL |
| Trustwave | Chicago, IL |

Table 2: Projected Enrollments (Combined)

| Cybersecurity AAS degree | First Year | Second Year | Third Year |
|--------------------------|------------|-------------|------------|
| Full-Time Enrollments: | 10 | 24 | 32 |
| Part-Time Enrollments: | 4 | 10 | 16 |
| Completions: | - | 7 | 16 |

| Cybersecurity Certificate | First Year | Second Year | Third Year |
|---------------------------|------------|-------------|------------|
| Full-Time Enrollments: | 8 | 20 | 24 |
| Part-Time Enrollments: | 4 | 10 | 16 |
| Completions: | - | 8 | 26 |

Financial / Budgetary Information: The programs will require one (1) existing full-time and one to two (2) new part-time faculty the first year. All facilities are adequately in place to support the program and will share existing resources with the Information Technology programs currently being offered. Some new equipment purchases and software licenses have been budgeted for during the first three years. 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 | \$24,094 | \$81,048 | \$93,095 |
| Administrator Costs | - | - | - |
| Other Personnel costs | - | - | - |
| Equipment Costs | \$5,500 | \$12,000 | \$10,000 |
| Library/LRC Costs | - | - | - |
| Facility Costs* | - | - | - |
| Other (Software licenses) | \$13,250 | \$13,250 | \$13,250 |
| TOTAL NEW COSTS | \$42,844 | \$106,298 | \$116,345 |

Table 4: Faculty Requirements (Combined)

| | <u>First Year</u> | | <u>Second Year</u> | | <u>Third Year</u> | |
|------------------|-------------------|------------------|--------------------|------------------|-------------------|------------------|
| | <u>Full-time</u> | <u>Part-time</u> | <u>Full-Time</u> | <u>Part-time</u> | <u>Full-Time</u> | <u>Part-time</u> |
| New Faculty | 0 | 2 | 1 | 0 | 0 | 1 |
| Existing Faculty | 1 | 0 | 1 | 2 | 2 | 2 |

Olney Central College

Unmanned Aerial Technology A.A.S. degree (60 credit hours)

Program Purpose: The program prepares individuals for Federal Aviation Regulations (FAR) Part 107 Commercial Pilot Remote licensure and entry-level employment in commercial drone vehicle operations and/or cross-training and other employment opportunities in fields where unmanned aerial technology is utilized.

Catalog Description: The Unmanned Aerial Technology program will prepare students for jobs in industries that use a variety of types of unmanned aerial systems. Such industries include: agriculture, public safety, surveying, inspection, and logistics. Current industry technology, current regulations, and Part 107 Certificate requirements are heavily emphasized.

Curricular Information: The program requires 17 credit hours of general education coursework, and 43 credit hours of career and technical education coursework.

The career and technical component includes instruction in introductory unmanned aerial technology (UAT), principals of UAT flight, UAT mission planning, UAT electronics, UAT design and construction, UAT photogrammetry, UAT industry applications, UAT law, policy and safety, aerial photography and videography, remote pilot FAR Part 107 prep, and a UAT industry project. Students will be prepared for the required Federal Aviation Administration (FAA) FAR Part 107 Commercial Pilot Remote licensure exam. Assessment of student learning will be achieved through evaluation of the student’s comprehensive final project and performance on practice licensure exams.

Justification for Credit hours required: NA.

Accrediting Information: Program accreditation is not required, however, the unmanned aerial technology courses have been developed to prepare students for FAR Part 107 licensure.

Supporting Labor Market Data (including employer partners): Labor market information provided by the college supports the need for training program in this field of study. The college worked closely with its program advisory committee to identify a need for this training and the breadth of opportunities within the college’s district. Occupations that utilize drone operation skills are expected to increase in demand by between 5-11% statewide through 2026.

Table 1: Employer Partners

| <u>Employer</u> | <u>Location</u> |
|---|-----------------|
| Flying S (Drone Manufacturer) | Palestine, IL |
| Hampton Lenzini & Renwick Inc (Civil Engineers) | Mt. Carmel, IL |
| Ameren (Electric Service Company) | St. Charles, MO |
| Olney Fire Department | Olney, IL |
| State Farm (Insurance) | Bloomington, IL |
| Country Financial (Insurance) | Bloomington, IL |

Table 2: Projected Enrollments

| Unmanned Aerial Tech AAS degree | First Year | Second Year | Third Year |
|--|-------------------|--------------------|-------------------|
| Full-Time Enrollments: | 10 | 15 | 20 |
| Part-Time Enrollments: | 5 | 5 | 10 |
| Completions: | - | - | 10 |

Financial / Budgetary Information: The program requires one (1) new full-time faculty to implement and one (1) new part-time faculty during the second and third years as necessary. Qualified faculty hold an Associate's degree in Unmanned Aerial Systems, Aviation, Engineering Technology or other closely related field, FAR Part 107 certification, one year related work experience, and one year teaching experience. Some equipment purchases, equipment maintenance and facilities upgrades have been budgeted for during the first three years of operation. The programs were developed and will be supported with Title III Grant Funds through the first three years of implementation. Grant funds cover the cost of faculty, equipment, facilities upgrades and equipment maintenance. The program will otherwise be supported by student tuition and fees.

Table 3: Financial Information

| | First Year | Second Year | Third Year |
|---------------------------|-------------------|--------------------|-------------------|
| Faculty Costs | \$56,238 | \$57,925 | \$59,664 |
| Administrator Costs | - | - | - |
| Other Personnel costs | - | \$10,000 | \$10,000 |
| Equipment Costs | \$59,055 | - | - |
| Library/LRC Costs | - | - | - |
| Facility Costs (upgrades) | \$35,000 | - | - |
| Other (equip maintenance) | \$1,000 | \$1,000 | \$1,000 |
| TOTAL NEW COSTS | \$151,293 | \$68,925 | \$70,664 |

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 | 0 | 1 | 0 | 1 |
| Existing Faculty | 0 | 0 | 1 | 0 | 1 | 1 |

Olney Central College

Welding and Fabrication A.A.S. degree (60 credit hours)

Program Purpose: The certificate will prepare individuals for entry-level and advanced employment as welders in a variety of settings.

Catalog Description: The Welding and Fabrication program is designed to prepare welders and fabricators to meet the needs of the industry. This includes but not limited to the successful completion of a 6g pipe/tube test, extensive knowledge over technical document and tool reading, and successful welding on exotic metals and alloys. Jobs available in local industries are pipefitting/welding, boiler making, ironworking, sheet metal working, fabrication, and production welding.

Curricular Information: The program requires 17 credit hours of general education coursework, and 43 credit hours of career and technical education coursework. The career and technical component includes instruction in introductory Gas Metal Arc Welding (GMAW), Shielded Metal Arc Welding (SMAW), Gas

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Tungsten Arc Welding (GTAW), Flux Core Arc Welding (FCAW), Advanced GMAW, Combination Welding, welding metallurgy, pipe and tube preparation, pipe welding certification, 6g Pipe Certification, design and fabrication, blueprint reading, metal cutting and preparation, and Exotics.

Students who complete the welding course sequence are eligible to sit for the American Welding Society (AWS) certifications that cover four various individual structural steel codes, and 6g Pipe Welding Certification. The college currently offers several shorter-term certificates in welding which ladder into the proposed degree program. Assessment of student learning will be achieved through evaluation of the student's performance during comprehensive certification practice assessment.

Justification for Credit hours required: The career and technical component of the curriculum was developed according to standards of the American Welding Society to prepare individuals for AWS industry certifications. The general education component includes an additional two (2) credit hours in employability skills the program advisory committee felt strongly to be included. This course is also included in related certificates.

Accrediting Information: Program accreditation is not required, however, welding courses have been developed according to the American Welding Society (AWS) standards.

Supporting Labor Market Data (including employer partners): Labor market information provided by the college supports the need for training program in this field of study. According to the Illinois Department of Employment Security (IDES), growth in the employment of "welders" is expected to increase by 4.9%, "sheet metal workers" by 8.9%, "ironworkers" by 10.2% and "plumbers/pipefitters" by 14.2% statewide through the year 2026.

Table 1: Employer Partners

| Employer | Location |
|-------------------------------|-----------------------|
| Pipefitters Local 157 | Terre Haute, IN |
| Boilermakers Local 374 | Hobart, IN |
| Boilermakers Local 363 | Belleville, IL |
| Ironworkers Local 103 | Evansville, IN |
| Sheet Metal Workers Local 268 | Caseyville, IL |
| DC Weld Inc. | Flora, IL |
| Floyd's Welding | Onley, IL |
| GSI | Various locations, IL |
| Evapco | Newton, IL |
| Master Halco | Onley, IL |

Table 2: Projected Enrollments

| Welding & Fabrication AAS degree | First Year | Second Year | Third Year |
|---|-------------------|--------------------|-------------------|
| Full-Time Enrollments: | 17 | 22 | 25 |
| Part-Time Enrollments: | 5 | 5 | 10 |
| Completions: | - | - | 17 |

Financial / Budgetary Information: The program requires one (1) new full-time faculty, one (1) existing full-time faculty, and one (1) new part-time faculty. Qualified faculty hold an Associate's degree in Welding and one year related work experience, AWS certification, and one year teaching experience. Some equipment purchases, consumables (such as welding gas), and facilities upgrades have been budgeted for during the first three years of operation. The programs were developed and will be supported with Title III Grant Funds through the first three years of implementation. Grant funds cover the cost of faculty,

equipment, facilities upgrades and lab consumables. The program will otherwise be supported by student tuition and fees.

Table 3: Financial Information

| | First Year | Second Year | Third Year |
|---------------------------|-------------------|--------------------|-------------------|
| Faculty Costs | \$56,238 | \$57,925 | \$59,664 |
| Administrator Costs | - | - | - |
| Other Personnel costs | - | - | - |
| Equipment Costs | \$363,785 | \$23,735 | - |
| Library/LRC Costs | - | - | - |
| Facility Costs (upgrades) | \$10,400 | - | - |
| Other (welding supplies) | \$9,000 | \$18,900 | \$18,900 |
| TOTAL NEW COSTS | \$439,423 | \$100,560 | \$78,564 |

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 | 0 | 0 | 0 | 0 |
| Existing Faculty | 1 | 1 | 2 | 1 | 2 | 1 |

South Suburban College

Barbering A.A.S. degree (65 credit hours)

Barber Technician Certificate (50 credit hours)

Program Purpose: These programs will prepare individuals for required state licensure, entry-level employment, and advancement opportunities, as barbers.

Catalog Description: The Barbering program at South Suburban College offers students hands on training in the art, skill, and science used in the barbering business. This includes the design of hair, facial shaving, chemical services for hair, installation of temporary hair pieces, salon operations, and barber license review. The program meets the standards of the Illinois Department of Finance and Professional Regulation (IDFPR) in total hours, teaching staff, equipment, facilities, libraries, and course content. Students are required to complete a specific number of hours in the Barber College Salon. Once students have completed all coursework and laboratory hours, they are ready to sit for the licensure examination through the IDFPR. Students must be licensed in order to practice Barbering in Illinois. The A.A.S. curriculum builds on the technical Certificate to provide students with an option for a degree credential in this field.

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 operations, introductory/intermediate levels of chemical services, barber styling, barber business, 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).

Barbering Technician Certificate – This curriculum includes a subset of the required career and technical educational courses from within the proposed degree totaling 50 credit hours. The certificate was also 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 in both programs will be achieved through evaluation of the student’s performance during the salon operations 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 has plans to seek IDFPR approval once all required State Board approvals have been received and the Barber College Salon is ready for inspection.

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.

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 locally around 10.8%, statewide around 4%, and nationally around 13% through the year 2026.

Table 1: Employer Partners

| Employer | Location |
|------------------------|-------------------|
| Clippers and Shears | Harvey, IL |
| Cuts on Point | Midlothian, IL |
| Dynasty Cuts | Harvey, IL |
| Elite Clientele | Dolton, IL |
| Father & Sons | Chicago, IL |
| Grooming for Success | South Holland, IL |
| Major League Barbering | Chicago, IL |
| Silk and Classy | Dolton, IL |

Table 2: Projected Enrollments

| Barbering AAS degree | First Year | Second Year | Third Year |
|-----------------------------|-------------------|--------------------|-------------------|
| Full-Time Enrollments: | 8 | 16 | 16 |
| Part-Time Enrollments: | 8 | 16 | 16 |
| Completions: | - | 8 | 16 |

| Barbering Technician Certificate | First Year | Second Year | Third Year |
|---|-------------------|--------------------|-------------------|
| Full-Time Enrollments: | 24 | 24 | 24 |
| Part-Time Enrollments: | 24 | 48 | 48 |
| Completions: | 24 | 48 | 48 |

Financial / Budgetary Information: The programs will require four (4) new 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. Facilities upgrades to existing lab space and new equipment purchases to meet IDFPR requirements have been budgeted during the first year. The programs were developed with Workforce Equity Initiative (WEI) Grant funds and will be supported fiscally through student tuition and fees.

Table 3: Financial Information (Combined)

| | First Year | Second Year | Third Year |
|------------------------|-------------------|--------------------|-------------------|
| Faculty Costs | \$81,120 | \$123,773 | \$126,966 |
| Administrator Costs | - | - | - |
| Other Personnel costs | - | - | - |
| Equipment Costs | \$20,200 | - | - |
| Library/LRC Costs | - | - | - |
| Facility Costs* | \$70,000 | - | - |
| Other | - | - | - |
| TOTAL NEW COSTS | \$171,320 | \$123,772 | \$126,966 |

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 | 4 | 0 | 2 | 0 | 0 |
| Existing Faculty | 0 | 0 | 0 | 4 | 0 | 6 |