Statewide Model Programs of Study Information Technology

> February 8, 2022 Thank you for joining! We will get started shortly.



Quick Notes

- We highly encourage you to use the Q&A and Chat Box
- This webinar is being recorded
- The slide deck link will be shared in the chat

Agenda

- Welcome from ICCB and EdSystems
- Background on Model POS Guides
 - Policy Alignment
 - Role of Advisory Committee
- Model POS Mapping Process
- Review of POS Guide for Information Technology
- POS in Action: Rock Valley Community College and District 214 Wheeling High School
- Feedback and Next Steps





Welcome from Illinois Community College Board



Janelle Washington Director for CTE



EdSystems Staff



Juan Jose Gonzalez Pathways Director



Meagan Mitchell Pathways Manager



The EdSystems Mission

Shape and strengthen education and workforce systems to advance racial equity and prepare more young people for productive careers and lives in a global economy.







Community Networks



Background on Model Programs of Study



Why Develop Statewide Model Programs of Study?

The primary purposes and goals for the Model Programs of Study Guides are to:

- Provide guidance and exemplars for local programs to adopt or customize as they develop programs of study for approval as part of the Perkins V Plan.
- Identify priority dual credit and early college courses that are foundational to the industry area and well-situated for statewide scaling and articulation.
- Define the competencies that should be sequenced across a program of study course sequence to prepare students for the future of work in that industry area.
- Identify entry points for employers to support coursework and related experiences.



Why Develop Statewide Model Programs of Study? Pt. 2

Intended audiences:

- High school faculty working in pathways
- Community College faculty and staff (e.g. academic deans & department heads, early college liaisons, etc.)
- Education for Employment System Directors

Subsequent Presentations

- February 22: Architecture, Construction, and Energy
- March 15: Finance and Business Services
- April 19: Arts and Communications



State Pathways Model







College and Career Pathway Endorsement Framework



INDIVIDUAL PLAN

Each student completing an endorsement must have an individualized plan, which includes college planning linked to early understanding of career goals, financial aid, resume, and personal statement.

PROFESSIONAL LEARNING

Awareness, exploration, and preparation activities that provide opportunities for students to interact with adults in their workplace

9th	10th	11th	12th				
At least 2 career exploration activities or 1 intensive 60 cumulative hours of paid or credit supervised career development experience with a professional skills assessment							
At least 2 team-based challenge	s with adult mentoring						
Through	these experiences, a student ga competencies in the		technical				
CAREER-FOCUSED	INSTRUCTIONAL SEC	QUENCE					
postsecondary credentia	coursework, or equivalent al with labor market value. N						
credit. _{9th}	1	1 440	1.00				
9th	10th	11th	12th				
Orientation / Introduction	10th	11th	12th				
901	10th Skill Development	11th	12th				

ACADEMIC READINESS

Ready for non-remedial coursework in reading and math by high school graduation through criteria defined by district and local community college

Policy Alignment



State Pathways Policy Framework: College, Career and Life Ready

Accelerated Towards a Career Area

- Multiple years of 2 coursework, increasing commitment to the field
- Emphasis on Early college coursework in "Career-focused" subjects
- Courses go Beyond Traditional High School CTE and Industry Credentials, include Complementary General Education Courses

Academically Ready for College

- Required success in College-Level, career-focused coursework and electives
- Required placement college-level placement in Math and English (through collaboration with local Community College)

Foundational Skills for All Careers

- General employability and entrepreneurial skills embedded in HS experience
- Student have a familiarity with work-based setting and robust experience in problem-based learning





2020 Guides

- Education
- Health Sciences
- Information Technology
- Manufacturing and Engineering

edsystemsniu.org/guides

2021 Guides

- Agriculture, Food and Natural Resources
- Architecture, Construction and Energy
- Arts and Communications
- Finance and Business Services





Role of Advisory Committee

Expertise and guidance:

- What are trends in the industry that aren't reflected in Labor Market Information?
- What credentials/degrees are emerging as most promising in the field?
- How does our desk analysis relate to on-the-ground implementation?
- What are future of work implications for this sector?

Inform key decision-points in this process:

- Pathway map approach
- Selecting strategic early college credit courses
- Identifying key competencies (building from existing State technical competencies)



Mapping Process



Model Programs of Study Mapping Process





Model Programs of Study Mapping Process







High Priority Occupations & Promising Credentials

- Using Department of Labor data and the MIT Living Wage Calculator for the State of Illinois as a reference, High Priority Occupation defined
 - Occupations with a positive growth outlook and
 - Occupations whose salaries are near or greater than the "Living Wage" of 1 Adult + 1 Child in Illinois.
- A "promising credential" is a degree or college certification that immediately prepares an individual for entry into a high-priority occupation, with a focus on credentials available in typical Illinois Community College.
 - Credential may also be is a <u>clear precursor to or</u> <u>stackable credential</u> for a high-priority occupation



<u>Finance/Business Example</u>	Median Wage Hourly	Living Wage?	Growth?	Entry Education	Annual Job Openings	Percentage Growth (2016-2026)
Accountants and Auditors	33.89	Yes	Yes	Bachelor's Degree	5,510	8%
Business Operations Specialist	36.81	Yes	Yes	Bachelor's Degree		
Financial Analyst	39.29	Yes	Yes	Bachelor's Degree	1,310	7%
Actuary	49.34	Yes	Yes	Bachelor's Degree	140	23%
Market Research Analysts and Marketing Specialists	29.15	Yes	Yes	Bachelor's Degree	2960	22%
Human Resource Specialist	28.79	Yes	Yes	Bachelor's Degree	2230	6%
First-Line Supervisor of Retail Sales Workers	18.74	No	Yes	High school diploma	5,620	3%
<u>First-Line Supervisor of Office &</u> <u>Administrative Support Workers</u>	28.3	Yes	No	High school diploma	4,450	0%
<u>First-Line Supervisor of Non-Retail Sales</u> <u>Workers</u>	34.04	Yes	Yes	High school diploma	1,070	3%
Human Resource Assistant	19.49	No	No	Postsecondary nondegree award	380	-4%
Lodging Manager	21.62	No	Yes?	High school diploma or equivalent	180	9%
Insurance Claims and Policy Processing Clerks	19.94	No	Yes	High school diploma or equivalent	1090	10%

Common CC Programs

Guided Transfer

- Business AA**^^
- Accounting AA**^^
- Actuary AA^^

Business AAS, with specialities/certs^^

- General,**
- Insurance,
- HR,**
- Entrepreneurship,**
- Management,**
- Marketing,**
- Hospitality**

Supply Chain

Supply Chain AAS, AA/AS^{^^}

Accounting

Accounting AAS**^^

Leading to Occupations/Careers

Entry Level Bachelor's Degree Positions

- Business Operations Specialist OR Financial Analyst OR Market Research Analysts OR Human Resource Specialist
- Accountants and Auditors
- Actuary

Small/Local Business

- First-Line Supervisor of Retail Sales Workers OR Office & Administrative Support Workers OR First-Line Supervisor of Non-Retail Sales Workers
- Human Resource Assistant OR Lodging Manager OR Insurance Claim Clerk

Supply Chain

 Supply Chain Manager OR Production, Planning, & Expediting Clerks

Clerk Roles

Payroll & Timekeeping, OR, Bookkeeping, Accounting,
 & Auditing Clerk, OR Billing and Posting Clerks



Model Programs of Study Mapping Process





Identify Strategic Community College Courses

- Analyze "promising credential" program requirements at various Community Colleges in the state
- Tally and label all of the "career-focused" & "general education" courses across programs to determine which of these courses:
 - Are most common across targeted programs,
 - Are more likely accessible for dual credit, and
 - Have the potential for transferability and currency (through the Illinois Articulation Initiative) or have industry credentials



Identify Strategic Community College Courses

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С	D	E	F	G	Н	I	J	К	L	M	N 0
se its Course Code	e Course Title	Common Name	Prerequisites	IAI <u>Code</u>	Notes	Sum	ls course a Key PreReq for other courses	IAI Course?	AA 4	Accounting AAS Insurance AA	Business Administration Advanced Certificate
3 Business 11:	1 Introduction to Busines	s Intro to Business	None			5	7	1	1	1	
4 Business 18	1 Financial Accounting	Financial Accounting	College Level Math P	la BUS 903	Ę	9	9	1 1	1	1	1
4 Business 182	2 Managerial Accounting 21 CCC 3 Speech 101 Funda 22 23 24 25 26 27 28		Business 181 ge Level English P C2 900	BUS 904 5	1 1	1	9	1 1 1	1	1	1

Model Programs of Study Mapping Process





Map Secondary to Postsecondary Sequence

- Recommend early college courses reasonably accessible to HS students, goal is to at least get 6+ career-focused credit hours by HS graduation
- Keep open possibility for unique opportunities, i.e. work-based learning or capstone course
- Consider typical teacher and faculty credentials, as well as course delivery and approval processes
- Suggest initial post secondary courses and sequences that continue to accelerate student
- Recommend sequence in general education subject areas, including early college and AP supplements

Model Programs of Study Mapping Process







Define Related Technical Competencies for Key Courses

- Select foundational courses in each Model Programs of Study area
 - Courses map to multiple credentials within the industry area,
 - Can be accessed for early college credit at secondary level, and
 - Not currently recognized by the IL Articulation Initiative (IAI)
- Determine a set of technical competencies for each course (i.e. learning objectives)



State of Illinois Model Programs of Study Guide: Information Technology

October 2020



Education Systems Center

ICCB

Review of the Information Technology Guide





Model Programs of Study Guide: Information Technology

Networking

AP or

Dual Credit

Dual

Credit

Course

Dual Credit

Course Affiliated

With IAI Code



Courses and Work-Based Learning Address the PWR Act Recommended Technical and Essential Employability Competencies

1	Career Exploration (2)	Team-Based Challenge	Team-Based Challenge	
ORK-BASED LEARNING	Team-Based Challenge	Career Development Experie	Career Development Experience Apprenticeship	
	Science Sequence	Science Sequence	Science 📎	Science 🕵
SOCIAL SCIENCE	Social Science Sequence	Social Science Sequence	Social Science 📎	Social Science 🚯
	Algebra	Geometry	Transitional Math: STEM	College Algebra
	Geometry	Algebra 2	College Algebra 🕞	Calculus 💽
MATH		Pre-Calculus	Pre-Calculus Calculus » 🛃 Statistics » 🔂	Statistics 🔥
ENGLISH	English Sequence	English Sequence	Transitional English	English Composition 🛃 Oral Communication 🛃

Postsecondary

with IAI Code

Course Affiliated

College and Career

Earned

Pathway Endorsement

If courses in this column were accomplished

through early college credit, students should

take the next required course in the sequence

or, if none, additional AAS or Major Courses

Course or Program

Industry Credential

Prepares for

Computer Information Systems Computer Information COMPUTER Systems Certifications 🕗 INFORMATION Computer Information **Bachelor of Science** Systems AAS SYSTEMS AND Computer Programmin Programming PROGRAMMING Certifications 🕗 2 GUIDED Computer Science Associate of Science **Bachelor of Science** TRANSFER 3 Associate of Science WEB **Bachelor of Science** Web Development Certifications 📀 DEVELOPMENT Web Development AAS (4) Networking and Cloud 🥝 Networking AAS NETWORKING, **Computing Certifications** CLOUD COMPUTING, **Bachelor of Science** & CYBERSECURITY Cybersecurity Certifications 🥝 Cybersecurity AAS

SELECTED OCCUPATIONS, WAGES, & JOB GROWTH

A

(ICCB

Education Systems Center

POSTSECONDARY OPTIONS

	Program	Typical Job	Near or Above Living Wage Threshold for 1 Adult + 1 Child ¹	Median Hourly Wage ²	Growth in Illinois: Annual Job Openings ²	Growth in Illinois: % Change Over 10 years ²	Stackable?
1	Computer Information Systems and Programming	Computer Systems Analysts	Y	\$41.67	2,230	9%	
		Computer User Support Specialists	Y	\$24.27	220	11%	
		Computer and Information Systems Managers	Y	\$65.12	1,370	10%	
		Computer Hardware Engineers	Y	\$50.35	110	12%	
2	Computer Science	Software Developers - Applications	Y	\$45.88	2,690	28%	
		Software Developers - Systems Software	Y	\$51.63	1,030	13%	Typically Stacks to Bachelor's
		Computer and Information Research Scientists	Y	\$55.43	90	21%	Program
3	Web Development	Web Developers	Y	\$33.85	515	15%	
	Networking, Cloud	Computer Network Architects	Y	\$56.07	400	7%	
		Information Security Analysts	Y	\$46.13	430	23%	
4	Computing, and Cybersecurity	Network and Computer Systems Administrators	Y	\$39.87	970	5%	
		Computer Network Support Specialists	Y	\$29.80	840	8%	

1. Living wage calculations are based on MIT's Living Calculator (livingwage.mit.edu), where the "Living Wage" for 1 Adult + 1 Child is \$26.27/hour for the state of Illinois. "Near" defined as 85% of the statewide living wage, which is \$22.33/hour of the state of the statewide living wage (which is \$22.33/hour of the state of the statewide living wage (which is \$22.33/hour of the state of the

2. U.S. Department of Labor, CareerOnestop (careeronestop.org/explorecareers)

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	ORIENTATION / INTRODUCTION Grades 9-10	SKILL DEVELOPMENT Grades 10–12	CAPSTONE / ADVANCED Grades 12	POSTSECONDARY COURSES 🕀 Recommended 1st Year
WORK-BASED LEARNING	Career Exploration (2) Team-Based Challenge	Team-Based Challenge Career Development Experie or Youth Apprenticeship	nce	Team-Based Challenge Career Development Experience or Apprenticeship
SCIENCE	Science Sequence	Science Sequence	Science »	Science 🛃
SOCIAL	Social Science Sequence	Social Science Sequence	Social Science >	Social Science 📑
MATH	Algebra Geometry	Geometry Algebra 2 Pre-Calculus	Transitional Math: STEM College Algebra 📄 Pre-Calculus Calculus » 🔂 Statistics » 🔂	College Algebra Calculus 🛃 Statistics 🚯
ENGLISH	English Sequence	English Sequence	Transitional English English Composition »	English Composition 💽
	Dual Credit Credit Cour	Credit Course or Program se Affiliated Prepares for IAI Code Industry Credential	Image: Secondary Postsecondary Course Affiliated with IAI CodeImage: Secondary College and Career Pathway Endorsement Earned	••••••••••••••••••••••••••••••••••••••

INTROE	INTRODUCTION TO COMPUTER INFORMATION SYSTEMS Key Competencies				
Applications and Software	 Students can use their understanding of system software and software applications to explain the purposes and functions of operating systems, essential system utilities, general business software applications, and mobile and web-based applications. Students can use their understanding of general software development to describe the life cycle of a software product from gathering requirements through deployment, maintenance, and next iteration. 				
Data and File Structures	 Students can use their understanding of common data and file structures to move, store, reference, access, and manipulate data or files necessary to create information. 				
Hardware	 Students can use their understanding of computer and peripheral hardware to explain the purposes and functions of the system unit and its components, input and output devices, and physical and virtual network devices and media. 				
Information Technology and Systems	 "Students can use their understanding of fundamental IT concepts, systems, platforms, tools, and technology to understand the common roles of IT professionals." - <u>PWR</u> Students can use their understanding of information systems to explain the purposes and functions of transactional, management, decision support, and other system types relevant to information technology. 				
Networking and Cloud Computing	 Students will use electronic resources and research methods to read medical writings and understand the medical information contained in them. Students will analyze and interpret patient records, lab reports, diagnostic summaries, etc., and the information contained in them. 				
Privacy, Security, and Ethics	 Students can use their understanding of fundamental privacy to identify and describe common and emerging privacy issues relevant to information technology and data. Students can use their understanding of physical and virtual security controls to identify, describe, mitigate, and prevent basic threats to computers and data. Students can use their understanding of fundamental ethics to identify and describe common and emerging ethical issues relevant to information technology, data, and artificial intelligence. 				
Programming	 Students can use their understanding of programming to code and debug basic programs via a graphical user interface and a command line interface. 				
Problem Solving and User Support	 Students can use their understanding of information technology and basic problem solving to identify a business problem; determine the problem's cause(s); and create, communicate, implement, and document a plan to resolve the problem. Students can use their understanding of computers and communications to assist and support computer users in addressing common hardware and software issues. 				

Strategic Dual Credit Course Competencies



	INTRODUCTION TO NETWORKING Key Competencies				
Devices and Media	 Students can use their understanding of networking infrastructure to explain the purposes, functions, and appropriate deployment of various network devices, media, and technology. 				
Software	 Students can use their understanding of system software and software applications to explain the purposes and functions of a network operating system and common network utilities. 				
Models and Protocols	 Students can use their understanding of the Open Systems Interconnect (OSI) model to identify and differentiate between OSI layers and their respective devices, protocols, and other components. 				
	 Students can use their understanding of TCP/IP to subnet and address an IP network. 				
	 Students can use their understanding of networking protocols to explain the purposes and functions of common ports. 				
Types and Topologies	 Students can use their understanding of LAN and WAN to configure and monitor basic networks of each type. 				
	Students can use their understanding of physical and logical network topology to compare, contrast, and deploy bus, mesh, ring, and star topologies.				
Security	 "Students can use their understanding of malware, firewall, IDS, and IPS to recognize and describe basic threats to networked computers." – <u>PWR</u> 				
	 Students can use their understanding of physical and virtual security controls to secure basic local and wireless networks. 				
Privacy and Ethics	 Students can use their understanding of fundamental privacy to identify and describe common and emerging privacy issues relevant to information technology and data. 				
	Students can use their understanding of fundamental ethics to identify and describe common and emerging ethical issues relevant to information technology and data.				
Troubleshooting and Support	 Students can use their understanding of troubleshooting to identify common network issues; determine an issue's cause(s); and create, communicate, implement, and document a plan to resolve the issue. 				
	 Students can use their understanding of networking and communications to assist and support network users in addressing common network issues. 				
Virtualization and Cloud	 Students can use their understanding of networking and the Internet to describe the concepts of virtualization and cloud computing. 				
Computing	 "Students can use their understanding of the features, benefits, and concepts of virtualization and cloud networking to differentiate among types of cloud services." <u>PWR</u> 				

Strategic Dual Credit Course Competencies



Model Programs of Study in Action Part 1: Rock Valley Community College


Department Overview



WHERE WE ARE

Career

User Support

Specialist A \$22.33/hourly*

Network Support

\$28.95/hourly*

Network Systems

\$35.33/hour*

* median regional salary

(entry-level wages will likely be lower)

Administrator 🗢

Specialist 🔷

R@ckValleyCollege **DIGITAL TECHNOLOGY** Pathways Associate in **Previous Credit** Certificates **Applied Science** There are many Cisco Networking CISCO Networking opportunities, both in (19 credits) high school and through Computers & previous college or C/C++ Programming Information Systems work experience to (15 credits) (CIS) earn Rock Valley Mobile Application Development College credits. Data Assurance & **IT Security** Classes offered in (11 credits) high school: CIS 102 A Network Technician CIS 170 (12 credits) CIS 280 Visual Basic **Bachelor's** PCT 110 Programming PCT 262 (15 credits) Pursue a Bachelor's PCT 270 Pending Partnership with Rockford University

CHALLENGES

- HS Faculty Qualifications
 - Networking Pathway
 - Programming Pathway
- Qualified Faculty Leaving
- HS Faculty Mentoring
- Transition to new courses or new course materials for HS

SUCCESSES

- Bootcamps
- LMS class shells for College faculty & H.S. Instructors to access
- District100 partnership
- IT Networking Pathway implemented fully in 3 HS
- Exploring future pathways
- Pathway correlates to industry certifications
 - CompTia A+ and Network +

Dual Credit/Dual Enrollment Options



What's Next?

- Expand or change the pathways as technology changes
 - Possible Cybersecurity Pathway
 - Move away from Mobile App Development Pathway
 - Updated programming pathways
- Implement pathway into additional area high schools

Model Programs of Study in Action Part 2: District 214 Wheeling High School





District 214 / Wheeling High School





High School District 214

7 campus high school district with 12,000 students located in northwest suburbs of Chicago

College and Career Pathway Focused - 38 career pathways - 80+ dual credit courses 30+ AP courses - 37,000+ Early College Credits - 950+ Industry Partners - 2,500+ workplace learning experiences



Wheeling High School

Majority-minority comprehensive high school with a STEM focus with 1,700 students. (64% Latinx, 25% white, 6% Asian, 2% black)

20% English Learners - 76% non-English home primary language - 47% Low Income - 71% First Generation

71% graduates successful in career dual credit coursework - 35% earn industry credential - 45% participate in internship or workplace learning experience - 85% graduates successfully complete AP, dual credit or transition core courses



IT Career Pathway Overview









24 IT Pathway Certifications and **Early College Credit**

Certifications

Early College Credit

IT Fundamentals

A+

Network+

Security+

Advanced Placement **AP Computer Science Principles Computer Science A**

Dual Credit

Harper College

NET105 IT Fundamentals NET111 A+ Hardware NET112 A+ Operating Systems Technology **NET121 Computer Networking**

Moraine Valley Community

College

LAN101 Orientation to IT Careers LAN103 Security Awareness LAN153 IT Security Essentials - Security+ (Additional dual credit specific Apprenticeships)



Career Pathways and Apprenticeships



Orientation and Exploration	Career Skill Development	Learning Connection and Extension	Employment in Career	Continued Education & Development
Middle School Outreach				
HS coursework				
	AP, Dual Credit & Certification focused coursework Internships and other introductory work-based learning			
	YOUTH and REGISTERED APPRENTICESHIPS			
"Empowering students and staff to explore, care, connect and grow in a changing world"				







Current Areas - Cyber Security Technician and IT Generalist/Help Desk

- Capstone work-based learning experience during non-traditional senior year
- Teaching and learning aligned to employment competencies through paid on-the-job training and related technical instruction
- Leverages existing work-based learning, certification and dual credit programs and post-secondary alignments

Addresses some challenges of pathway specialization vs. generalization



Successes in Pathway Development



Enrollment Growth

Modernization of pathway offerings

Development of relevant capstone extensions and transitions to existing pathway efforts







Teacher recruitment, certification program alignment and professional development

Knowledge and response to industry trends and changes

Sustaining / growing role of industry partnership





What's Next?

Recruitment and professional development for teaching staff

- Redevelopment of orientation experiences
- Expansion of capstone work-based learning and apprenticeship experiences
- Expanding focus on aspects of DEI within pathway

Something still circling in my mind is...

Something that squares with my thinking is...

3 Takeaways I have ar<u>e</u>...

Share Your Feedback

Survey QR Code



https://niu.az1.qualtrics.com/jfe/form/SV_4VhZXbPLe740vC6



Survey Questions







Model Programs of Study

Assess the implementation of the Model Programs of Study.

Advisory Committee

Assess the effectiveness of the committee or join an upcoming committee.

Webinar Review

Assess the effectiveness of the Webinar session.



Next Steps: Upcoming Statewide Model Programs of Study Webinars

Architecture, Construction, and Energy

February 22, 2022 | 2–3:30 p.m.

Finance and Business Services March 15, 2022 | 2–3:30 p.m.

Arts and Communications April 19, 2022 | 2-3:30 p.m.



Next Steps: Potential Statewide Model POS Guides Creation

Select from the following:



(Non-Education)



Culinary and Hospitality







Highlight and explore innovative models for work-based learning, initial focus on virtual



Engage in conversations on creating sustainable, high-quality models that provide broader and more equitable access, focusing on building social capital for Black and Latinx students

Explore the <u>Resource Hub</u> and <u>sign up for the</u> <u>newsletter</u>



Build connections among communities to share best practices, learnings and resources



Identify needs for state policy changes or support systems



Thank You

Survey: <u>https://niu.az1.qualtrics.com/jfe/form/SV_4VhZXbPLe740vC6</u> Guides: <u>edsystemsniu.org/guides</u>