

IT/Cyber Industry Sector Collaborative (ISC) Meeting Notes

Noon-1:30pm Friday, August 26, 2022

Attendance: Andrea Schauer, Diane Meza, Glen Olson, JB Files, Bethann Partin, Jessica Brosilo, John Catapano Julie Stiak, Landis Elliott, Larisa Greenband, Melanie Burm, Rick Vaughn, Bob Samson, Ron Monroig, Stephen Hustedde, Tom Polliard, Wyatt Johnson, Cathleen Barton, Dana Macke-Redford, Crystal Rodriguez

ISC Guidelines and Faculty Lead Role documents - Julie Stiak provided an overview of ISC Guiding Principles and shared it for final review. It was clarified there is one faculty lead per Industry Sector Collaborative.

- Faculty lead agreement and outcomes to be accomplished per semester are processed, reviewed, and approved by the respective division chair, program director, and dean. Workload hours are approved and funded by the Provost's office.

Action Item: Linked for final review.

- [ISC Guiding Principles](#)
- [Faculty Lead Role & Responsibilities](#)

[Skillstorm](#) Recap & [ISACA](#) Review - Glen Olson provided overviews of Skillstorm and ISACA.

Skillstorm

- Integrated into college structure Districtwide
- Scholarship structure - We have an updated version of the documentation to be shared with each college. Reconvene to vote via email or meeting to express interest. If not district-wide or by the college.

Diane Meza, MCC - PLA came to mind from a brief review of collateral provided. Brief conversion to be revisited in September.

Action Item: Vote is this valuable, explore or back away.

ISACA

An accreditation agency providing IT certifications. Linked to the financial industry. Glen is a member of the organization. Automated certification is in line with the financial industry in the valley.

ISACA approached MCCCDCD to build a workforce certification process for entry-level positions Security +, Google IT Support Certificates and provide instructors if needed. Higher level training and credentialing were historically their primary training.

- Benefits for students - Cost for materials, certifications, exams, and fees provided
- Full courses will be granted access to Glen Olson for review
- Will also provide modules as an option
- Great opportunity to expand what is being done through CompTIA.
- Potential for the student-led club (districtwide) to connect with ISACA professionals and link to ASU mentoring

Intelligence Community Centers of Academic Excellence (U of A and EMCC)

1. [Southern AZ Intelligence Summit](#)

Organization Eastern Arizona College, Estrella CC, U of A at Fort Huachuca. The genesis of the program out of the CIE Programs. Creating a pipeline from community college to university. UofA is hosting a summit this summer in Tucson for all faculty and students. It is a recruitment function for a Scholar Program. All disciplines are invited. Some of the skills sought after:

- Language skills
- Critical Thinking

Tom Polliard and Glen Olson are faculty contacts to learn more.

JStiak: Suggested sharing with Landis Elliot to be included in Maricopa Pipeline.

Q: Andrea Schauer - Only students going to U of A?

A: It is a recruitment event. Every student that completes gets hired by a three-letter agency.

Shared Advisory Board meeting discussion - N. Pham, G. Olson, C. Barton, and J. Brosilo met over the summer to discuss an AY 2022/23 advisory board. The team identified a timeline to host an event, Spring 2023 in late March. The event could be virtual or hybrid.

1. Timeline - spring is looking best due to conflicts in fall
2. Possible shared meeting with industry and K-12
3. Logistics (date, time, location, virtual or in person?)
4. Structure and desired outcomes of meeting for all participants

C. Barton: Chamber created a cyber security collaborative bringing industry to the table, to the point of emerging trends with lead time to make changes at CC levels. To share the top-of-mind things from an industry that might impact curriculum and hands-on experience.

The idea is that this convening would be districtwide information sharing based on work by Chamber intensive high school focus elevate AZ. High school internships process and industry review to schools and ADE.

The nature of the partnership between the colleges, the 4-year institutions all have advisory boards for different uses. For the community college importance of the cc and high school relationship. Elevate Ed work at this time has been engaged with Phoenix Union High School District, and Mesa Public School so it does not cover all school districts. Viable model for cc to high school partnerships.

A. Shaurer - is open to collaborating with the high schools, especially in a break-out session or sessions for cc and high schools to connect.

J. Brosilo: Also aligns to support an increase in dual enrollment and HCL accreditation advisory board requirements.

R. Vaughn: How can we make the most efficient use of our industry partners? There are so many arms of work in each industry how do we break it down to core areas of focus?

Suggested collaboration of national groups who work with colleges and universities to gauge consistency in response.

J. Stiak: MCCCDC is currently in discussions about creating an emerging technologies industry sector collaborative to include Manufacturing, IT, and Automotive faculty, meeting needs and knowing EV already integrates. We should have a healthcare and financial services faculty on this council. City of Phoenix is slated to be larger than Wall Street in 2028. A meeting with B. Celis is scheduled for next week to discuss this further.

Action Items:

- Come up with key points, and do a poll to find the most viable
- Colleges to suggest primary employers include

Reminder: Identified priorities for 2022-2023

1. Develop strategies to increase enrollment
2. Evaluation of required courses in IT certificates and degrees
 1. How can we best leverage MCOR marketing?
 2. Glen on IT Instructional Council - PLA can be leveraged
 3. [Workforce & Economic Development data website](#)

J. Brosilo: All projects leading back to the identified priorities. If we include K-12 could be included. MCOR marketing to the program level. Glen will be in the IT IC and can be our direct connection to the PLA. More to come from Glen.

G. Olson: *Great need to address marketing needs to get timely information out.* Education design lab meeting with four East valley colleges larger scope. Advanced manufacturing IT breaks down focus areas, micro cert or program course needs to have an aspect to come into the classroom for credit to pursue CCL or degree.

Set meeting dates - last Friday of the month from noon-1:30 pm is suggested

1. Proposed dates: Sept. 30, Oct. 26, Jan. 27, Feb. 24, March 31, April 28
2. Skip November (Thanksgiving holiday), December (Winter holiday), and May.

Action Item:

Workforce Education will send out proposed meeting dates for consideration. I will work to identify what works for most.

IT/Cyber Industry Sector Collaborative (ISC) Meeting Agenda

Noon-1:30pm Friday, August 26, 2022

Meeting ID: meet.google.com/ntg-miye-eoa **Phone:** 1 573-479-1492 **PIN:** 430 417 211#

- I. Welcome back & Introductions
 - A. WFE Staff: Crystal Rodriguez & Larisa Greenband
 - B. WF Development Managers
 - C. Greater Phoenix Chamber Foundation Staff Change
 - D. New faculty attendees

- II. VMware IT Academy
 - A. Guest Bob Danielson, Residential Faculty at MCC

- III. ISC Guidelines and Faculty Lead Role documents
 - A. [ISC Guiding Principles](#)
 - B. [Faculty Lead Role & Responsibilities](#)

- IV. [Skillstorm](#) Recap & [ISACA](#) Review

- V. Intelligence Community Centers of Academic Excellence (UofA and EMCC)
 - A. [Southern AZ Intelligence Summit](#)

- VI. Shared Advisory Board meeting discussion
 - A. Timeline - spring is looking best due to conflicts in fall
 - B. Possible shared meeting with industry and K-12
 - C. Logistics (date, time, location, virtual or in person?)
 - D. Structure and desired outcomes of meeting for all participants

- VII. Reminder: Identified priorities for 2022-2023
 - A. Develop strategies to increase enrollment
 - B. Evaluation of required courses in IT certificates and degrees
 1. How can we best leverage MCOR marketing?
 2. Glen on IT Instructional Council - PLA can be leveraged
 3. [Workforce & Economic Development data website](#)

- VIII. Set meeting dates - last Friday of the month from noon-1:30pm is suggested
 - A. Proposed dates: Sept. 30, Oct. 26, Jan. 27, Feb. 24, March 31, April 28
 - B. Skip November (Thanksgiving holiday), December (Winter holiday), and May?

- IX. Other business?

IT/Cybersecurity Industry Sector Collaborative (ISC) Meeting

Friday, September 30, 2022 · 12:00 – 1:30pm

Agenda

Video call link: <https://meet.google.com/zon-aeuv-rcc>

Phone: (US) +1 513-855-2372 PIN: 903 172 333#

Team Members: Andrea Schauer, Bethann Partin, Brenda Whillock, Brianna DeGeus, Cathleen Barton, Christopher Stevens, Chris Schnick, Crystal Rodriguez, Dana Macke-Redford, Daniel Barajas, Dan Combellick, Darcy Renfro, David Eilken, Dennis Kibbe, Diane Meza, Emilio Cabrera, Glen Olson, Kristin Gubser, J.B. Files, Jenna Kahl, Jessica Brosilo, John Catapano, John Jackson, Julie Stiak, Landis Elliott, Lori Jacquez, Martin Bencic, Melanie Burm, Mizan Rahman, Nick Rouse, Shea Padilla, Paula Livingston, Rick Vaughn, Bob Danielson, Bob Samson, Ron Monroig, Sean Petty, Stephen Hustedde, Susan Campbell, Tom Polliard, Tom Pearson, Wyatt Johnson, Crystal Rodriguez, Larissa Greenband

Guest(s): Neil Newman

Meeting Preparation (Prior to the meeting):

- [Review meeting minutes](#)
- [Review current agenda](#)

Agenda & Minutes

Meeting Goals/Objectives

- [Priorities 2022-23](#)

Discussion Topics	Discussion Lead	Outcome/Action Needed/Next Steps
<ul style="list-style-type: none"> ● Student Employment Pipeline 	Neil Newman	<ul style="list-style-type: none"> ● Promote student employment opportunities within DO ITS <ul style="list-style-type: none"> ○ PT Project Manager Assistant ○ PT Desktop Support Specialist ● Contact Neil Newman directly with any student recommendations. ITS can create opportunities. ● Current positions available. Once they are filled communication will be sent to Glen Olson and Izelle Silva.
<ul style="list-style-type: none"> ● VMware IT Academy <ul style="list-style-type: none"> ○ Certified professional IT academy <ul style="list-style-type: none"> ■ Two classes ■ Entry level ■ 70% off certification class 	Bob Danielson	<ul style="list-style-type: none"> ● Seeking a company willing to provide technical interviews. Cathleen Barton and Shea Padilla will connect with potential contacts.
<ul style="list-style-type: none"> ● Information Systems Audit and Control Association, Inc. (ISACA) <ul style="list-style-type: none"> ○ Evaluation as NDAs approved by Legal Counsel ○ ISACA Which Cert is Right for You 	Glen Olson	<ul style="list-style-type: none"> ● Security overview to determine if courses are targeted for entry level ● Fundamentals Course Review ● Employability statistical data not out on entry level, there is some successful employment in the financial sector.
<ul style="list-style-type: none"> ● SkillStorm - University Program Overview - 2022 LWDVP.pptx 	Glen Olson/Diane Meza	<ul style="list-style-type: none"> ● Vote is this valuable, explore or back away ● Will be added to October mtg for vote.
<ul style="list-style-type: none"> ● Dual Enrollment 	Glen Olson	<ul style="list-style-type: none"> ● Brainstorm common message to schools ● Data for dual enrollment students transitioning to MCCC

		<ul style="list-style-type: none"> ● Create benchmarks across colleges with partnerships. ● Julie Stiak to connect with Rose Rojas to inquire about our articulation agreements with CTEDS
<ul style="list-style-type: none"> ● Shared Advisory Board <ul style="list-style-type: none"> ○ Spring 2023 in late March 	Glen Olson/All	<ul style="list-style-type: none"> ● Come up with key points, and do a poll to find the most viable. Priorities 2022-23 linked for reference ● Colleges to suggest primary employers to invite. Contact sheet linked here
<ul style="list-style-type: none"> ● CISA Cyber Grants <ul style="list-style-type: none"> ○ Potential partnership between MCCC and State ○ Great opportunity to get job and internship opportunities within the field. 	Glen Olson	<ul style="list-style-type: none"> ● Glen will reach out to Ngam Pham

Reminders & Updates:

- Next meeting Friday, October 28, 2022 from 12 pm to 1:30 pm
- Send programs to highlight to MCOR for newsletter
- Notes from the [West Valley Business Tech Summit 2022](#)

Notes for ISC Faculty Lead Team

Suggested agenda item for next meeting:

CAE Program Certification

What is the goal to offer at all seven schools?

- NSA rep confirmed each individual school must apply
- A site visit is required
- Four years of program data
- Benefit would open grant opportunities.
- PVCC is working on application to submit in 2024

Maricopa Community Colleges

IT/Cybersecurity Industry Sector Collaborative (ISC)

Friday, Dec 9, 2022| 3-4 pm

Agenda

Present: Andrea Schauer, Bethann Partin, Brenda Whillock, Brianna DeGeus, Cathleen Barton, Christopher Stevens, Chris Schnick, Crystal Rodriguez, Dana Macke-Redford, Daniel Barajas, Dan Combellick, Darcy Renfro, David Eilken, Dennis Kibbe, Denise Kruckenberg, Diane Meza, Emilio Cabrera, Erin McGehean, Glen Olson, Kristin Gubser, J.B. Files, Jenna Kahl, John Catapano, John Jackson, Julie Stiak, Landis Elliott, Larissa Greenband, Lori Jacquez, Martin Bencic, Melanie Burm, Mizan Rahman, Nick Rouse, Shea Padilla, Paula Livingston, Rick Vaughn, Bob Danielson, Bob Samson, Ron Monroig, Sean Petty, Stephen Hustedde, Susan Campbell, Tom Polliard, Tom Pearson, Wyatt Johnson

Present

Guest: Michael Voss

Link: IT/Cyber Industry Sector Collaborator Meeting

Video link: <https://meet.google.com/zon-aeuv-rcc>

Or dial: (US) +1 513-855-2372 PIN: 903 172 333#

Meeting Preparation (Prior to the meeting):

- [Review minutes](#)

Maricopa Community Colleges

Meeting Goals/Objectives

- [Priorities 2022-23](#)

Discussion Topics	Discussion Lead	Outcome/Action Needed/Next Steps
<p>Shared Advisory Board with GPCF</p> <ul style="list-style-type: none"> • Spring 2023 in late March • Glen, Cathleen Barton, Shea Padilla, and Workforce Education will coordinate a meeting to plan for the Shared Advisory Board • Need to discuss meetings with K-12 schools 	Glen Olson/All	<ul style="list-style-type: none"> • Workforce Education to coordinate a meeting with Shea Padilla and Cathleen Barton to plan for the spring meeting • Develop key points and conduct a poll to find the most viable. Priorities 2022-23 linked for reference • Colleges to suggest primary employers to invite. Contact sheet linked here
<p>Grad Farming</p> <ul style="list-style-type: none"> • MCC Institutional Effectiveness (IE) collaborated with Michael to create Tableau dashboards • He shared the coding with District IE, and a meeting is scheduled with District ITS, IE, Academic Technology Michael Voss, and Workforce Education on 12/15/22 to develop a system-wide approach to AutoConfer and grad farming. Important to automate the process as much as possible as this is a staff-dependent process and takes 40 minutes per student at minimum • Data analysis yielded 2,300 new CCL completers at MCC over the past three years with 583 in CIS-related certificates alone and many are AWS related • Data analysis can be extended to program completion as MCC data indicates 70 programs have <2 graduates per year and many have 0. • Easy to assess student interest in programs using the MCC grad farming coding. Example: 	Michael Voss, Dean of Instruction, MCC	<ul style="list-style-type: none"> • Lori Lindenberg in ITS and Enterprise Analytics will lead the AutoConfer and Grad Farming meeting on 12/15 and provide an update to Julie and Glen • The ISC will review the recommendations at the January ISC meeting

Maricopa Community Colleges

<p>Cybersecurity is the highest MCC student interest yet MCC does not offer all of the courses in this CCL</p> <ul style="list-style-type: none"> • MCCCCD should be reporting three times the number of CCL's as Associate degrees yet that is not our trajectory and AutoConfer and grad farming should help attain this outcome • Important to engage with Financial Aid to ensure completion awards will not impact student specific aid 		
<p>Amazon Web Services (AWS) Education to Workforce Team (West Region) Workforce Education coordinated a follow-up meeting with Ron Blanchard from the October meeting</p> <ul style="list-style-type: none"> • Diane Meza provided a synopsis of the meeting with AWS as Mizan was not available until later in this meeting • AWS has had a long standing relationship with MCCCCD and is willing to provide access to the virtual training network and expand exposure to cloud concepts across CIS programs • CIS110 and CIS120 will not lead to Cloud Administration and colleges will need to use other alternative courses • Discussion about use of different cloud platforms across different colleges and possibly discuss a regional approach as the West Valley uses Microsoft Azure while East Valley uses AWS • There will be a SciTech STEM event in the East Valley in January 2023 • GenTech also met with SCC 	<p>Diane Meza</p>	<ul style="list-style-type: none"> • WE will coordinate a second meeting with CCTA and Pathway Mapping Coach, AWS West Region Team, Diane Meza, Nick Rouse, and Mizan Rahman • Glen will coordinate a discussion with faculty and the Instructional Council as needed to discuss use of various cloud platforms across the colleges
<p><u>SkillStorm Update</u> UpSkill Together initiative</p> <ul style="list-style-type: none"> • Contact Glen with any questions. 	<p>Glen Olson</p>	<ul style="list-style-type: none"> • Faculty Vote - The consensus was not to pursue an agreement with SkillStorm at this time

Maricopa Community Colleges

<ul style="list-style-type: none"> Julie Stiak can make connections to Skillstorm for any schools interested in working with them directly. 		
<p>Information Systems Audit and Control Association, Inc. (ISACA)</p> <ul style="list-style-type: none"> Fundamentals Course Review Glen Olson: Nick Rouse is working with ISACA. Understand the IT World, not necessarily experts. 	Glen Olson/Nick Rouse	<ul style="list-style-type: none"> 10/28/22 Glen Olson: Motion to collaborate with Finance-related IC in the interest of providing the financial industry. For example, auditors. The course can be taken through MCCCCD for certifications to enter management. Ron Monoroig supported, 2nd.
<p>Dual Enrollment - Standing agenda items given the climate and changes in legislation. Bill passed to supplement. Funding options for students and at Colleges, or NSF.</p> <ul style="list-style-type: none"> Some faculty serve on the High School District Advisory Councils and could leverage this access to expand dual enrollment efforts The K-12 Conference will be held in Phoenix December 4-5, 2023, and could be an excellent conference for ISC members to participate and share dual enrollment plans It was noted all East Valley Unified School Districts are engaged in STEM MCC and EVIT are planning concurrent programs that may include IT/Cyber pathways 	Glen Olson	<ul style="list-style-type: none"> Dual enrollment - CTEDs can offer degrees and ISC faculty need to be involved. Lack of completers and transfers to MCCCCD through Dual Enrollment Workforce Education will coordinate a meeting with Katherine Sisulak the new Dual Enrollment Coordinator

Maricopa Community Colleges

<p>Pipeline AZ IT/Cybersecurity Hub -</p> <ul style="list-style-type: none">• A separate hub within the platform to guide learners, and employment seekers to connect with education and employers• Maricopa Pipeline is in use at all 10 colleges with 19,000 users and growing• AC4 strategy for all 10 Community College systems in the state to adopt Pipeline AZ - MCCCDC, Coconino, Yavapai	Julie Stiak	
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Reminders & Updates:

- Next meeting Friday, January 27, 2023, from 12 pm to 1:30 pm
- Send programs to highlight to MCOR for newsletter

Notes for ISC Faculty Lead Team

IT/Cyber ISC Meeting Minutes

Friday, Feb. 1, 2022

Present: Julie Stiak, Cathleen Barton, Ngan Pham, Tom Pearson, Rick Vaughn, Andrea Schauer, Ron Monroig, Bob Samson, Dan Combellick, Dave Eilken, Diane Meza, Glen Olson, Tom Polliard, John Catapano, Sean Petty, Diane Meza, Dana Macke-Redford, Cathleen Barton, Nick Rouse, Emilio Cabrera, Wyatt Johnson, Jessica Brosilo

District Workforce Reorg update from Julie Stiak:

- District Workforce in state of reorganization; Chancellor sees value in a group that is more external facing and one focused on faculty/workforce education support
- Darcy Renfro will report to the Chancellor and lead corporate engagement, govt relations, marketing, communication, etc. with focus on external partners
- Julie becomes Director of Workforce Education; Jessica Brosilo is Program Director; Reporting to Bettina Celis. Also includes Healthcare Education. Team may grow in the future – hope to add project analyst. Responsibilities and areas of focus still being developed but will continue to facilitate ISCs and partner with Greater Phoenix Chamber Foundation to enact training and education programs needed to support industry partners.
- More info to come. Update from Bettina Celis or Daniel Barajas at next ISC meeting, if not before.
- Questions included: How will reorg affect industry requests and the “hand-offs” to ISCs? How can we better streamline efforts with Deans, faculty, other stakeholders to expedite curriculum design?
- Julie stresses that streamlining efforts are underway including involving Occupational Deans Joint Council Reps in ISCs and focusing ISC efforts on projects that involve multiple colleges. Goals focused on inclusivity and building programs to boost talent pipelines. Curriculum redesign process going to Governing Board later this month and should also help with streamlining efforts.

New ISC Chair Needed and New Co-Facilitator:

- Jessica Brosilo replaces John Catapano as Workforce Education liaison and co-facilitator for ISC.
- Tom Pearson, current ISC chair, has been promoted to Dean. ISC needs new faculty chair.
- Mizan Rahman will replace Tom as CGC rep on ISC and Prema Rayappa will replace on CAHSI.
- **Action Item: Seeking new ISC chair. Tom provides this description of the position. Please email Jessica and Tom if you are interested in volunteering for the role.**

Greater Phoenix Chamber Foundation Update from Ngan Pham:

- [ElevateEDAZ](#) launched job shadowing and internships for high school students. Internships are mostly paid. Partnered with Phoenix Union HS District. Currently seeking employers to do a yearlong internship starting this August. Formed a Business Advisory Council through

ElevateEDAZ for Phx Union that is ready to start meeting in person (have been meeting virtually). Every district involved needs an advisory board.

- Cybersecurity Externships will be held in March in the evenings. Currently have 17 interns and 6 employers; next group has 18 employers and capacity for up to 52 interns.
- ALRISE project (Accelerate Latinx Representation in STEM Education). Alliance of 26 HSIs nationwide with nearly \$10M grant from NSF. Southwestern hub led by Phoenix College; will provide work-based experiences.
- ASU is submitting a Good Job Challenge grant and the GPCF is a subgrantee on the application. Will be submitting soon. If awarded, the grant will allow GPCF to work in partnership with employers to develop training programs and credentials. Targeting under-employed, unemployed, college and university students, military members and families and veterans.
- GPCF and Career Connectors will hold a series of career events. Next one is April 19 and focused on IT/Cyber. Goal is to connect 100-400 job seekers with industry.

MITI Updates:

- Diane Meza reports high-level priorities (for full report, see [IT/Cyber Google Drive](#)).
 - Girls Get IT event served 200+ females in 8-12 grade and school counselors. Event was very successful – industry partners were thrilled, had many ISC helpers and Apple and Microsoft were involved. Spent all funds in APS grant. Goal is to apply next year for the same grant and host at CGCC and get girls physically on campus.
 - Apple Consulting Network is providing funds for tuition through MITI. Rio Salado, Scottsdale, Mesa and Chandler-Gilbert may have Apple courses that qualify. Diane requested numbers surrounding dual enrollment and will check if tuition support can be provided to high school students enrolled in qualifying courses.
 - Apple Institute: Awarded funding two years in a row for outreach and training. If a school buys iPads, but doesn't know how to manage it, MITI will have a one-stop shop for training, management and deployment. Boot camp in the works. Model open to anyone who wants training but plans to train MCCC people first. Noncredit MAC essentials bootcamp, online for nine weeks. If they pass bootcamp, an internship will be available to them. Employer may hire after, if not, MITI can help with employment. Diane is asking Apple to supplement paid internship wages for employers. Suicide Prevention App developed through Technoprenuer program and piloted at EVIT. Asking for financial backing and will be available on Apple store soon.
 - Working on AWS certs. Meeting will be held soon with InfoSys (TX) to see if a similar program can be developed in AZ. Diane will send invitations to small group at first.
 - MITI is taking the lead on BAS for programming and data analytics and are working with faculty at MCC. Competencies will be done by April.

Marketing Updates:

- John Catapano highlights MCOR newsletter that has featured IT programs and events. If anyone has updates, feel free to put them in the [sheet designed by MCOR](#).

- Emilio Cabrera mentions MCOR is a lean marketing team but is happy to support when they can. They work closely with District to cover all events/programs.

Year in Review & Goal Setting for 2022-2023: For more detail, see John's notes in the [IT/Cyber Google Drive](#).

- List of goals need to be updated (some projects finished and/or never came to fruition). Some projects are ongoing (ex. CAHSI, Intel AI, Pathway mapping).
- Possible new year initiatives may include:
 - Co-meeting with GPCF; haven't had joint meeting since before pandemic
 - Develop and share strategies to increase enrollment. Created many in-demand programs but seats remain empty. Where is the disconnect? Diane offers that institutes and direct connection to employers is helpful. Students and partnering employers are our best "advertisements" for programs. Employers must engage for this to work. Desire to create different models to show industry how they can become involved and invested.
 - Be mindful that industry requests don't always mean creating something new. Sometimes a repackaging of existing curriculum works just as well and allows us to be more responsive.
 - Rethink required courses – add at least one cloud class in the Cyber cert and IT degrees. Enrollment will go up if course is required.
 - Cathleen suggests asking employers to give feedback – perhaps 60 second video clips to be used in recruiting. Have industry say to students that they like the talent coming out of MCCCCD. Identify priority high schools, market right to students before graduation. Also employers meeting with other employers could help MCCCCD create pathways that would work for multiple companies.
 - Explore an Internet of Things cert. Diane would love to be involved. GPCF would also support IOT efforts. (Perhaps tour ASU's AR facility near MITI – bootcamps will happen this summer. Next tour is March 17.)
 - Joint Advisory Council discussion. All colleges are required to have Advisory Boards – may be easier to do one for whole district. Right now we should pick a date and get a venue. (Jessica will work on this.) Could follow the Business IC model – one larger meeting for general overview of HLC and then two break-out sessions for IT and Cyber.

Spring 2022 meeting dates:

- Staying with first Friday of each month from noon-1:30pm; Invitations will come to your Google calendar from Jessica.
- Dates are: Feb. 4, March 4, April 1, May 6
- Summer dates TBD

IT/Cyber ISC Meeting Minutes

March 4, 2022

Present: Tom Pearson, Diane Meza, Rick Vaughn, Glen Olson, Cathleen Barton, Wyatt Johnson, Tom Polliard, Jessica Brosilo, Julie Stiak, Bob Samson, John Catapano, Martin Bencic, Ngan Pham, Nick Rouse, Ron Monroig, Mizan Rahman

District Workforce Reorganization Update: Reorganization efforts are still in the works, including drafting essential functions for each division and how the divisions will interact. Bettina Celis and/or Daniel Barajas will attend April's meeting with a more comprehensive update.

New ISC Chair: Glen Olson has volunteered to service as ISC Chair. We thank Tom Pearson for his service.

New CGCC Rep (replacing Tom Pearson): The group welcomed Mizan Rahman to the IT/Cyber ISC. Mizan is CIS faculty.

Action Item: GPCF and Career Connections will host a series of industry-focused hiring events. They have asked for MCCCDC participation. Any faculty member who would like to showcase a program from his or her college is welcome to reach out to Ngan Pham. Programs should be IT focused and be less than 12 months long. The virtual event will be 9-11am on April 19.

Center for Future of AZ one-year grant program: Cathleen Barton described CFA's one-year grant for pre-apprenticeship or apprenticeship programs. The grant focuses on Black and Latina women ages 18-24. Grants can fund participation for women in IT, Healthcare or Advanced Manufacturing (high-skilled, high-wage career paths and training programs). Program will most likely be pre-apprenticeship including a work-based experience with partnering employers and related technical instruction in the classroom. Potential participants could be already enrolled in classes or be new to MCCCDC. Grant pays tuition, books and fees, and wrap-around services like childcare, transportation, etc. to minimize barriers. Opportunity is available to any student Valleywide. Companies will be asked to take at least two apprentices to create synergy and mini-cohorts. Please keep this in mind when working with students to help get the word out. Cathleen is happy to arrange presentations to classrooms and other student groups. Diane Meza mentioned that MITI's Technopreneur program as well as two new apprenticeship programs could yield candidates. Diane will share the Girls Get IT database with Cathleen.

Marketing, Outreach and Communication: Identified as Number 1 priority for ISC this Academic Year and will be a recurring agenda item. The group brainstormed ideas to engage industry and target specific programs, colleges, locations, and companies to get the word out about MCCCDC IT programs. Since District Marketing operates broadly, the group must find ways to pinpoint individual opportunities. MCOR can also assist. Discussion highlights included:

- Engaging companies virtually for information or recruiting events. These events could target high school students but don't have to - older adults are a group that marketing efforts should also focus on. Other groups may be transitioning military members, adult basic ed students, displaced workers, and immigrants. These groups tend to have the personal and professional experience companies desire.
- Create lists of short-term training, CCLs, and AAS degrees to share strategically with businesses. For instance, EMCC could identify companies near their campus with specific needs, and then connect on relevant programs.
- Focus could also be on upskilling incumbent workers. Ngan mentions that many companies are interested in career ladders - moving entry-level workers to mid-level positions, etc.
- AZ Tech Council may be able to host a lunch and learn that showcases training programs relevant to partnering companies.
- Advertise programs in conjunction with partnering employers. Showcase training and available jobs at the same time.
- Avent Games: Good way to get students involved in friendly competition that showcases their skills while also networking with employers.
- Work on faster and more nimble curriculum changes to meet needs.
- ABE has embedded an Integrated Education and Training (IET) plan; entry level IT could be an ideal pathway to explore with Rio (largest ABE provider in AZ).
- Leverage Pipeline AZ (replaces AZCIS). Career content all the way down to middle schools is being added.
- Leverage WIOA funding and Maricopa County and City of Phoenix Workforce Boards (AZ@Work). Programs that qualify should be listed on the ETPL: <https://info.maricopacorporate.com/etpl>
- Suggested that Glen and Jessica meet and/or gather info on marketing analytics from District Marketing and MCOR to find a good starting point.

Faculty Teaching Credit vs NonCredit programs: Concerns arose about how faculty accountability/pay/load/scheduling is affected by teaching noncredit programs. Suggestions include:

- ISC working with IC to look at industry recognized credentials that meet already existing courses. If a faculty teaches a noncredit MS Office Suite program, for example, it may align to an already existing CIS class. This can be worked out with the IC.
- Noncredit can be offered at any cost. HLC restrictions do not exist for instructors of noncredit - the colleges can hire who they deem appropriate to teach. This makes finding non-residential instructors easier.
- Need to develop industry-responsive programs; noncredit is usually a faster way to do this.
- Faculty do still need to address with their FACT or Faculty Senate about how this will affect them.

Joint meeting with GPCF: Still in the plans, but probably not for a couple months. The Cyber Collaborative met yesterday and want to reach consensus on goals before they meet with larger groups. Ngan will keep the group posted for future joint meeting opportunities.

Education Design Lab: Julie has been added to planning group for the EDL initiative. Will invite Janelle Elias from RSCC to attend our April meeting for updates. Check out the website: <https://eddesignlab.org/> and a recent article on the project: <https://azednews.com/new-manufacturing-and-information-technology-resources-for-mccd/>

Next meeting: noon-1:30pm Friday, April 1

Meeting Minutes
IT/Cyber ISC Meeting
April 1, 2022

Attending: Andrea Schauer, Glen Olson, Ngan Pham, Rick Vaughn, Bob Samson, Tom Polliard, Jessica Brosilo, John Catapano, Julie Stiak, Mizan Rahman, Nick Rouse, Steven Hustedde, Diane Meza

SAIL Presentation from Rick Vaughn, RSCC

RSCC was selected as one of eight implantation colleges for NSF-Carnegie Mellon grant to integrate and offer classes via SAIL. SAIL (Social and Interactive Learning) is an environment to meet emerging tech needs. The initiative includes working with community colleges of all kinds (distance learning, online/virtual learning, in-person learning, etc) to provide culturally responsive and data informed teaching pedagogy as well as to measure and improve self-efficacy and STEM identity.

Faculty will receive 80 hours of professional development in year one and more in years 2-3. Some will travel to Carnegie Mellon for additional training. The curriculum is already in place but we are adopting and delivering their pedagogy methods. There will be lots of data available – research, reports, and pedagogical delivery research. Includes strong tech curriculum and training future workforce goals.

Other highlights include:

- Project-based learning that is scalable
- Community college focus
- Industry aligned, possible collaboration with employers later on
- Flexible and validated, research enabled, community driven
- Interoperable platform
- Probably will be integrated with Rio Learn
- OER offerings

RSCC will adopt two courses:

- Practical Programming with Python (CIS156 aligned) don't have to rewrite curriculum, just deliver via SAIL platform. Maybe offer on traditional platform and SAIL or just via SAIL. Decision not been made, must consider how students would be placed in one section vs another. Certifications earned: PCEP PCAP
- Intro to Computing: Does not align to a current course. General info on computing devices, cyber, and cloud computing. Remains to be seen where this might fit. Do we create a new class? CIS or Computer Science?

Glen waiting for board to approve to offer SAIL at EMCC. This could be an opportunity to work together.

Virtual Hiring & Training Events – Greater Phx Chamber Foundation/Career Connectors, Ngan Pham

GPCF and Career Connectors are co-hosting several upcoming hiring and training events. Some are in person and some are virtual. Some are industry focused and some are more general for high school students. Ngan is working with MCOR and Jessica to explore hosting two upcoming events at MCCCCD

locations (possibly manufacturing at MCC and transportation/warehousing at RSCC or EMCC). Next event is April 19, focused on Cyber & IT. It is virtual and Diane Meza will present.

[Check out this link for all upcoming event details.](#)

MITI PC Updates, Nick Rouse

- First-ever overnight Hackathon at the IT Institute @ Phoenix College on May 6
- Summer session: Two non-credit classes to be offered Introduction to Cybersecurity for Beginners, Class 17215, 05/31/2022 - 06/26/2022, \$25 Fee and Cyber Security Essentials, Class 17216, 06/27/2022 - 07/31/2022, \$25 Fee

2022-2023 Goals Discussion, Glen Olson

Two priorities identified for the year: Develop strategies to increase enrollment and Evaluation of required courses in IT certificates and degrees

Develop strategies to increase enrollment

- Problem for all colleges
- First approach: K-12 pipeline and outreach. The ISC can develop common marketing materials to send out to K-12 schools. Not all students live within the zone of service of the school that they may want to attend so marketing is key. Also, the ISC could make an effort to ramp up more short summer camps – get interest in K-12 to visit us and be affordable.
- Second approach: K-12 partnerships including dual enrollment. Glen and Jessica are asking district for dual enrollment stats as a place to start. Areas of interest include: are they finishing degrees at MCCCDD after dual enrollments? Are they getting certs/degrees? Are these programs actually worthwhile for us as a whole? Does this group have pathway info?
 - Bob says 20 years ago the first Girls in IT – 400 girls came for 2-3 years. Enrollments following that didn't show any noticeable enrollment increases for women. Anecdotally, there was no big bump.
 - Tom: Many don't come to colleges because they lose scholarships once they have dual enrollment credit.
 - Some dual enrolled students completed CCLs and then they lost funding because it was a completion. Happens with VA funding, too. Simultaneous awards should be considered – hold off on awarding cert until degree is achieved.
 - Mizan is looking to enhance dual enrollment at CGCC. Currently works with Basha HS but wants more exposure at other HS. Recommended to talk to his DE coordinator and/or Kishia Brock at District.
 - Julie: ElevateEDAZ has these priorities for working with High Schools in IT programs with MCCCDD: Information Technology • Computer Maintenance/Computer Maintenance and Cybersecurity– PXU (Metro Tech HS), MPS (Westwood HS) • Network Security/Computer Networking/Networking and

Cyber– PXU (Metro Tech HS, Phoenix Coding, Academies at SM) • Software Development /Software and App Design– PXU (Metro Tech HS, Phoenix Coding, Academies at SM), MPS (Westwood HS)

- Movement to accelerate HS students to declare majors and make a pathway from HS to Community College to University.
- Third approach: Marketing targeted to businesses for upskilling incumbent workers AND marketing for career changers. Could include approaching businesses to invite current employees to take classes to upskills. Some cities wanting to do this more. Glen wants to showcase the value of education. Not all workers have the skill sets to keep themselves secure. Marketing for career changes, particularly in short-term and non-credit areas.

Evaluation of Courses, Credit/Noncredit, Certificates/Degrees

Credit Degrees & Certs: Good option for promoting for upskilling existing workforce. Works well in academic side but it is limiting and slow for pathways to be developed. IC is slow to change but it's the processes not the people. Desire to explore a defined way to grant credit for existing certifications (PLA).

Noncredit courses: Should have PLA pathways from the start. Teaching noncredit may affect faculty load, 60% load requirement, and division budgets. These should all be explored through Faculty Senate or Faculty leadership. Also a concern that the Skill Centers may be upset if residential faculty start teaching noncredit. Cost is also a consideration. We have to be able to set pricing to be competitive while keeping in mind the amount of overhead.

PLA: ISC/IC has already done a ton of work to get IT classes crosswalked for PLA. Checked TES (Transfer Evaluation System link) but process not yet completed. IC needs to validate that all 10 colleges approve these credits for industry recognized credentials. Once approved, Clarissa Duarte will complete the PLA process. This could be very valuable in marketing programs.

Revenue: District is looking at alternative revenue sources. Noncredit could be a way to do that. All colleges can offer noncredit. We have to be able to meet people where they're at. Joint Instructional Deans should have this conversation as well. Does not conflict with trade and technical clock hour model. Many cohorts use the WIOA system. Clock hour attracts those. All of our partners know the value of training (industry recognized credential) but they don't care about credit, noncredit, clock hour, etc. They just want the credential and employment. For example, SCC offering noncredit Cyber bootcamp for HS students. Filled for three summers in a row. Using spreadsheet for load hours and NRE.

Next Meeting: May 6. Need to select summer meeting dates.