

Ohio Semiconductor Collaboration Network

Represents All Ohio Community Colleges





- Intel Groundbreaking event, September 9, 2022
- Semiconductor Education and Research Program Announcement

Working Together for One Purpose

- September 2022 Intel announced the support of Ohio semiconductor education and research through grants totaling \$17.7M as part of a \$50M initiative
- 8 grants were awarded
- **Ohio Semiconductor Collaboration Network** representing all 23 Ohio Community colleges awarded \$2.8M



Regional Strategies

Northeast, Southeast, and Southwest:

- Addresses regional needs and builds regional student pipelines
- Strengthens regional transfer to universities: Associates, Bachelors, and beyond
- Localized access to equipment and resources

Statewide Collaboration Network

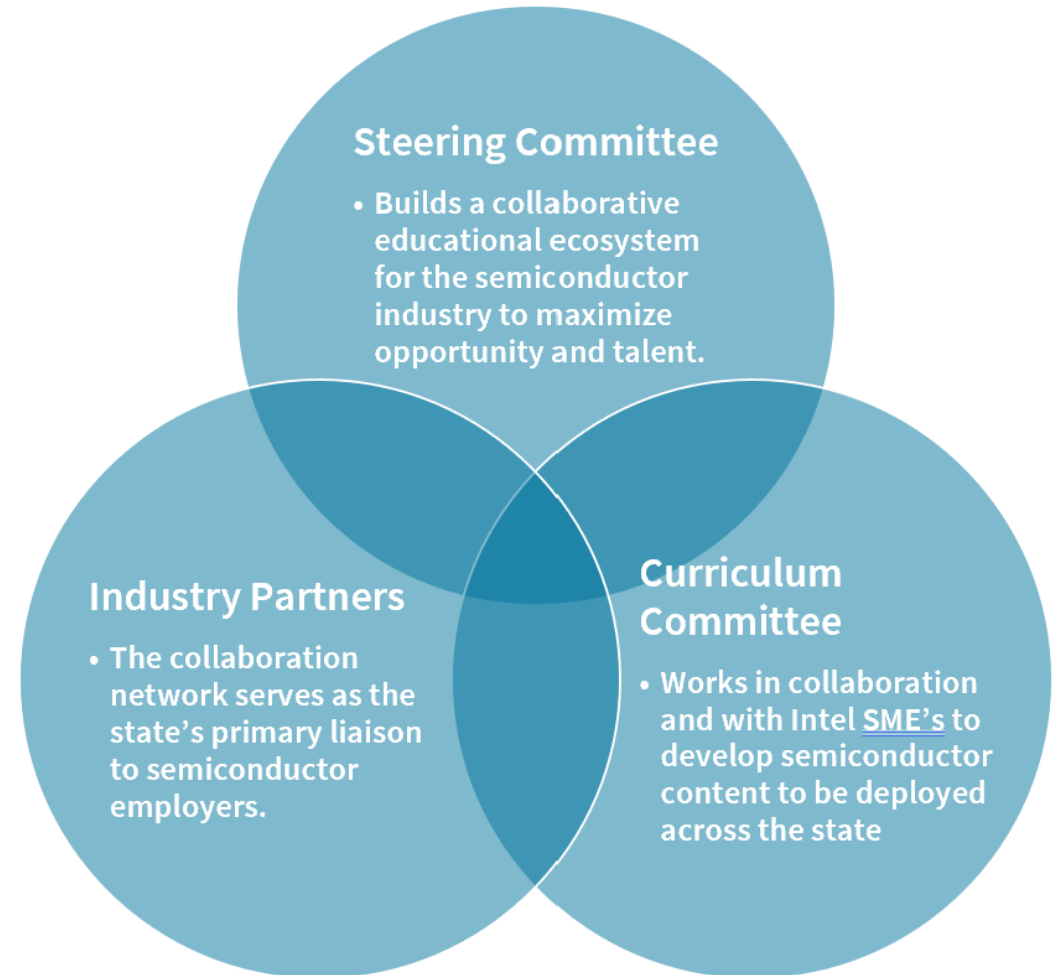
Statewide System for:

- Short-term training and associates degree alignment
- Best practice replication
- DEI-centered recruiting and professional development
- Dual enrollment - CCP
- Experiential and hands-on learning

Intel & Industry Engagement

- Primary channel for associate degree talent
- Navigate Ohio ecosystem
- Recognize and interpret state nuances
- Leverage existing partnerships – i.e. OMA
- Mfg Industry Sector Partnerships / "Good Jobs Challenge"

OACC Statewide Collaboration Network Structure



Intel Ohio Talent Summary

3,000 New Hi-Tech Intel Jobs

70% Technicians

25% Engineers

5% Support Hiring (starting now)

Targeting 50% hired by 2024



Ohio Semiconductor Collaboration Network - Success Metrics

Deliverable	Outcome
KT1: Curriculum Development <i>* Two certificate programs modified per college</i>	Certificate Programs Modified: 46 <i>Expected Start Date: Summer 2023</i>
KT1: Curriculum Development <i>*9 modules created with 80% adoption across 23 community colleges</i>	Curriculum Modules Offered: 165 <i>Expected start date: January 2023</i>
KT1: Curriculum Development <i>*4 new/enhanced courses per college</i>	Enhanced Courses Offered: 90 <i>Expected start date: January 2023</i>
Total Number of Graduates: <i>Associate degree and certificate completions*</i>	Degrees & Certificates Earned: 5,200
Female Student Completions: <i>Completion of a bootcamp, certificate, or degree</i>	Female Completions: 1,200
URM Student Completions: <i>Completion of a bootcamp, certificate, or degree</i>	URM Completions: 1,700

Manufacturing Technician: What It's Like To Work at Intel



Network Steering Committee Members

Leads	
Columbus State Community College	Scot McLemore - Executive in Residence
Ohio Association of Community Colleges	Michael Evans - Director, Semiconductor Collaboration Network
Ohio Manufacturers' Association	Sara Tracey - Managing Director, Workforce
Intel Ohio Representative	TBD
Jobs Ohio	John Sherwood - Manager, Talent Strategy
Columbus State Community College	Dr. Rebecca Butler - Executive Vice President
Central Ohio Technical College	Dr. John Berry - President
Northeast Regional Consortium: Lorain County Community College	Terri Sandu - Director, Talent and Business Innovation
Southeast Regional Consortium: Zane State College	Dr. Chad Brown - President
Southwest Regional Consortium: Clark State College	Dr. Jo Blondin - President
3 at Large College Representatives:	
Marion Technical College	Dr. Ryan McCall - President
North Central State College	Dr. Dorey Diab - President
Owens Community College	Dr. Dione Somerville - President
Equity Focused Representative Ohio Association of Community Colleges	Laura Rittner – Executive Director, Success Center



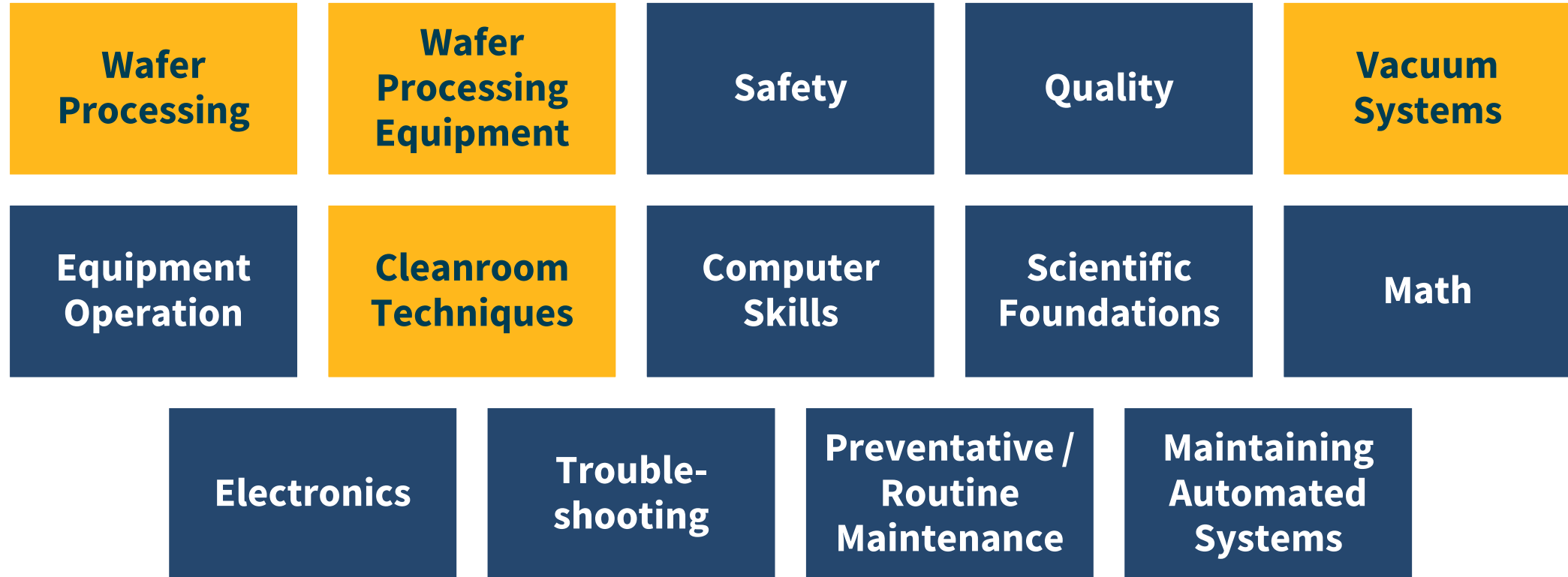
Steering Committee Workstreams

Workstreams

Each Workstream will have a Working Group Lead who will serve as a thought partner, co-develop draft content/hypotheses, and share recommendations with the Working Group during Steering Committee meetings.

	<u>Workstream</u>	<u>Tentative Lead</u>
Value Proposition	<ul style="list-style-type: none">Through facilitated discussion, reflection on lessons learned from prior research, and an understanding of the broader ecosystem in which we operate, we will clarify the things OACC members can do to close the gap, including attracting women, underrepresented minorities, veterans & military families to the semiconductor sector	Jack, Caroline
Opportunity Sizing	<ul style="list-style-type: none">Through facilitated discussion and research, we will define the 5-year semiconductor OACC member asset gap, spanning faculty/seats, curriculum, credentialing, recruiting, advocacy, facility & equipment, and other	Scot, Kaci, Caroline
Funding	<ul style="list-style-type: none">Maximize the opportunity to successfully pursue and win funding available for semiconductor asset development	Jack, Chris
Engagement	<ul style="list-style-type: none">We will partner with a communications consultant to provide input into the branding, positioning and communications plan development	Michael, Sara
Governance	<ul style="list-style-type: none">Building on the Value Proposition and Implementation workstreams, we will align on the rules and guiding principles for implementation	Jack, Chris, Caroline
Implementation	<ul style="list-style-type: none">We will define the goals of the Strategic Plan, and create a description of the work to be done as well as a workplan that will serve as a roadmap for execution	Michael, Caroline

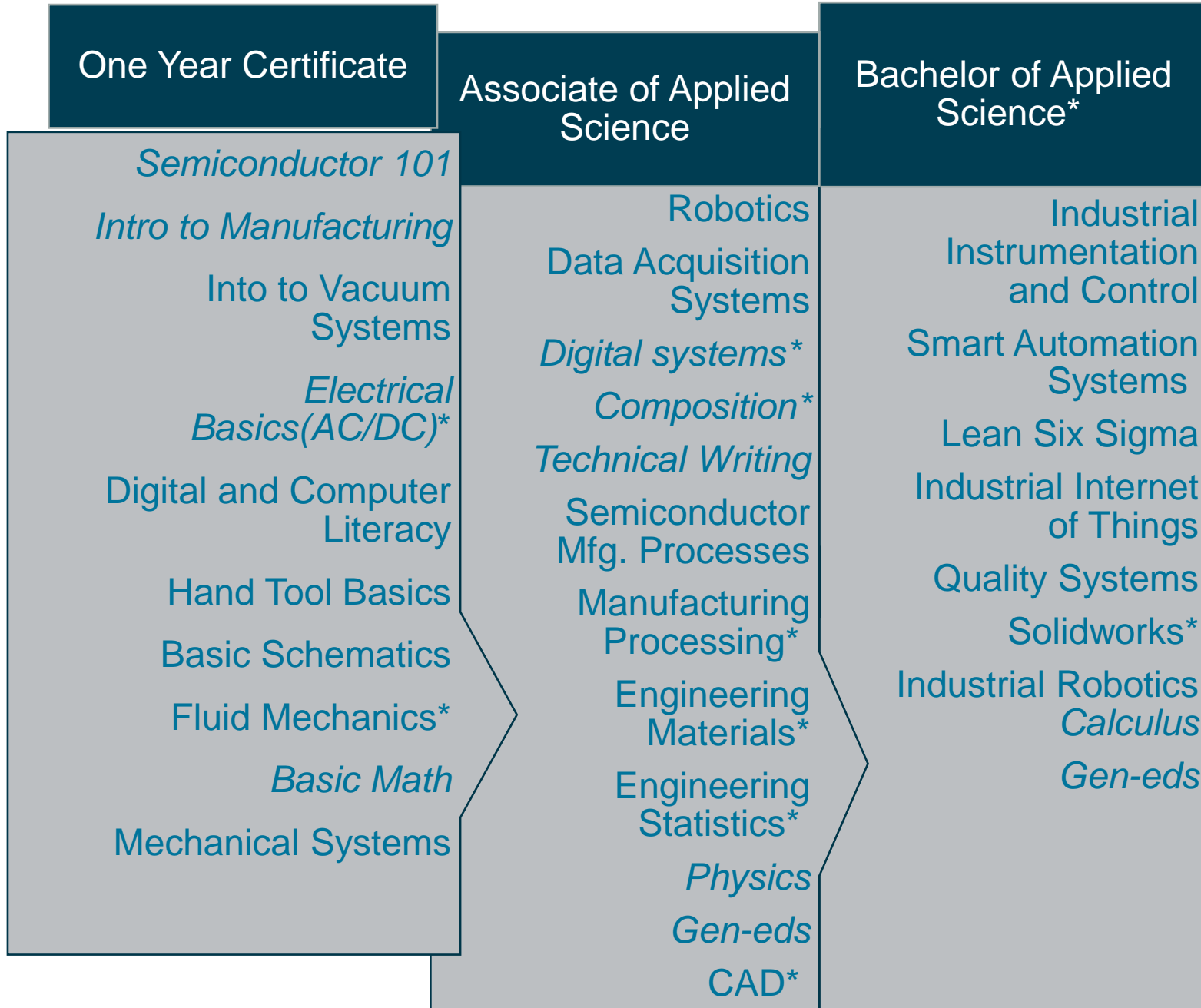
Semiconductor Equipment Technician Curriculum Core Knowledge & Skill Areas



Blue = 80% of the technician skillset reside in current statewide Engineering Technology Associate degree programs

Yellow = Semiconductor specific skillsets, targeted for curriculum development

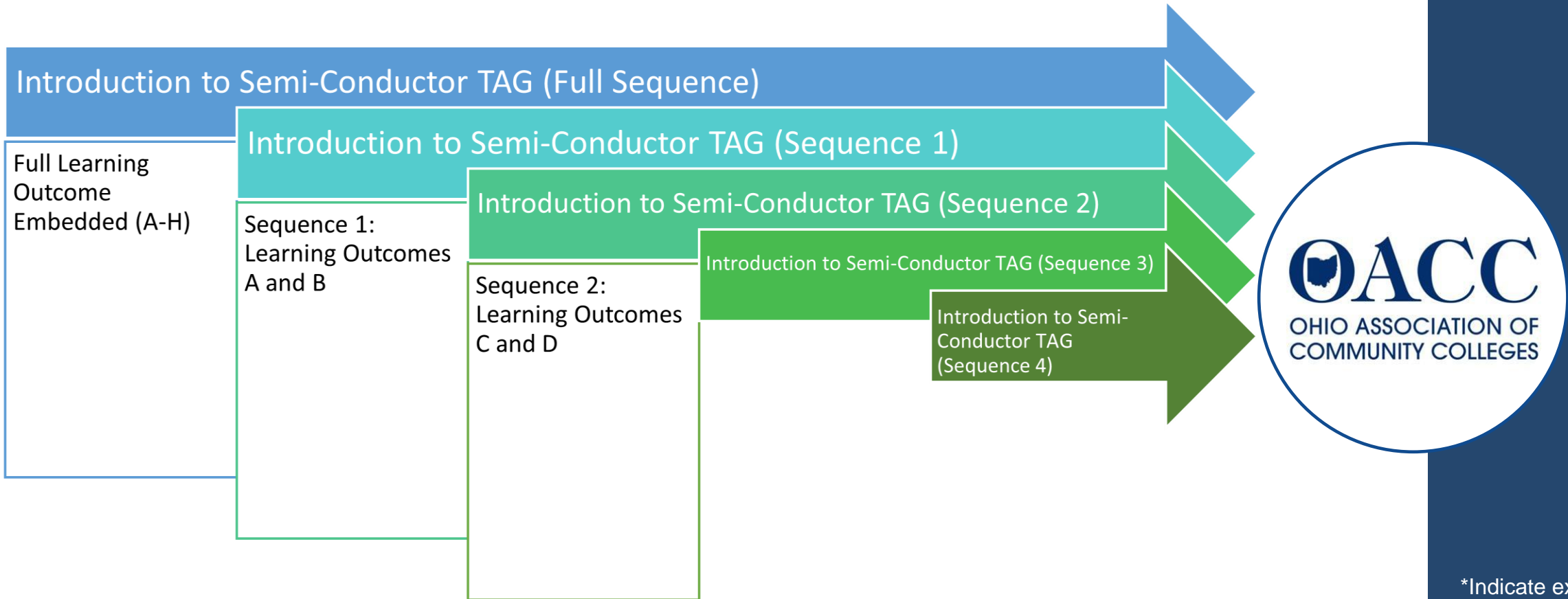
Sample Advanced Manufacturing Pathway



*Indicate existing TAG Courses

Courses in *Italics* indicate existing/prospective CCP Courses

TAG Course Sequence Example



*Indicate existing TAG Courses

Courses in *Italics* indicate existing/prospective CCP Courses

Marketing and Communications: Ohio Semiconductor Collaboration Network

- Working towards a common enrollment and marketing vision
- Collective, cross-institutional collaboration: building a common community college brand platform
- **Opportunity:**
 - Increase the pipeline of students in advanced manufacturing pathways and Intel career pathways
 - Address broader enrollment issues facing all Ohio community colleges
- **Deliverables:**
 - Develop a motivating brand position, narrative and story
 - Develop a collaborative messaging strategy
 - Develop a marketing communications plan
 - Develop marketing assets for the colleges to deploy locally



Marketing and Communication Directors Meeting: 1/24/2023

Equity PD for OACC Semiconductor Network

Community of Practice

Invitation for small team from each college to join a community of practice for deans, program directors and faculty in advanced manufacturing. Virtual kickoff in January 2023.

Culture of Belonging, Course Redesign & Active Learning Micro-Courses

Cohorts of faculty and staff taking ACUE's 8-week micro-courses beginning in the spring and continuing throughout 2023.

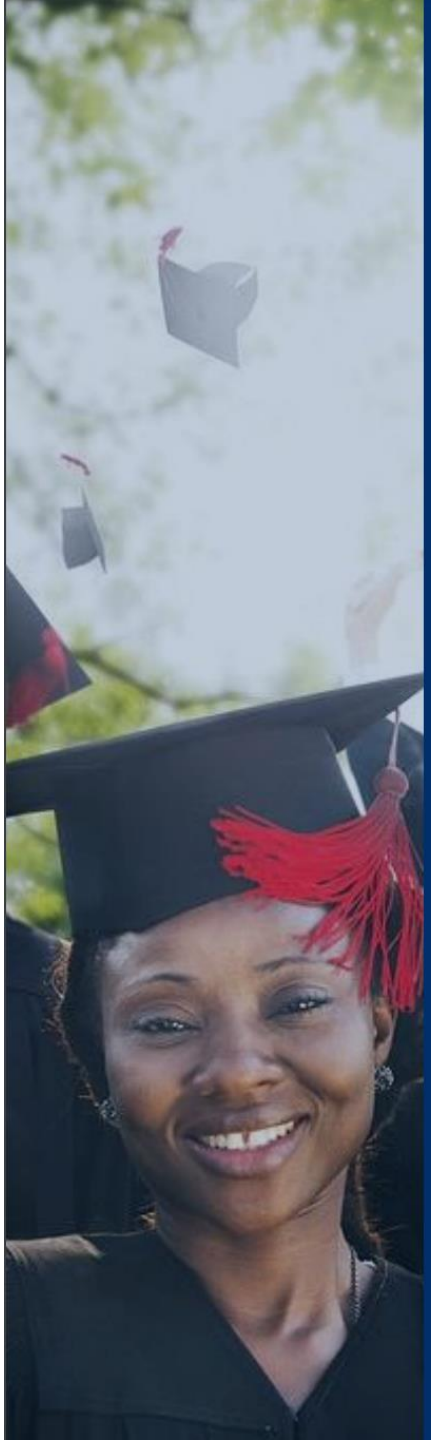
National Alliance for Partnerships in Equity (NAPE)

Explore STEM Careers: Provides a framework with lesson plans and activities to help counselors, teachers, and administrators to educate and inspire every student to consider a career in STEM. Interactive session designed to empower educators with effective messaging to communicate to a diverse group of students the breadth of opportunities and pathways in STEM careers and to introduce tools for students to explore STEM-related careers.

Program Improvement Process for Equity (PIPE): Five-Step Improvement Process that is based on practical yet rigorous methods and tools to guide state and local efforts to improve access, equity, and diversity in nontraditional occupations and STEM fields.

Alignment with Professional Development Mini-Grants

Leveraging and aligning with the participation in content professional development and mini-grant funding to campuses



2023 Major Milestones: Ohio Semiconductor Collaboration Network

- **April 2023:** Curriculum finalized and validated by the OSCN curriculum committee
- **May 2023:** Semiconductor curriculum modules will be widely disseminated via an online platform to faculty at Ohio's 23 community colleges
- **June 2023 – December 2023:** Broad and targeted marketing of community college semiconductor programs for Intel technician career pathways
- **Fall 2023:** Semiconductor programs begin for early adopter community colleges