Johnson County

Advanced Manufacturing Program

(an Early College Model)

Tricia Ferguson, Assistant Principal, Center Grove High School

Stephanie Amos, Vice Chancellor, Ivy Tech - Johnson & Shelby Counties

Nicole Otte, Director of Workforce Development, Endress+Hauser

Parent Meeting Agenda

- Why are we adding this program?
- What is the program?
- What are the benefits to my student?
- Meet our Industry and Educational Partners
- Timeline and Application

WHY AMP?

- Push for Four-Year Degrees
- Baby Boomers Retire – Shortage in Workforce
- Higher Education Costs
- Johnson County Counselors
  - Partnerships with Manufacturing, Trades, and Unions
  - Missing education/degree component
  - Conversations around Internships/Apprenticeships

WHAT IS AMP?

- Early College Model (Graduate High School & College)
- AAS Industrial Tech (Adv. Automation & Robotics Cert)
- Certifications
  - MSSC, OSHA, Siemens, SACA, Snap-On
- On the Job Training & Work Experience (1200 hours)
- Hired by Industry Partner following Successful Completion

	Monday	Tuesday	Wednesday	Thursday	Friday
1	English 11	English 11	English 11	English 11	English 11
2	US History	US History	US History	US History	US History
3	Geometry	Geometry	Geometry	Geometry	Geometry
4	Earth Science	Earth Science	Earth Science	Earth Science	Earth Science
5	Lunch/Travel	Lunch/Travel	Lunch/Travel	Lunch/Travel	Lunch/Travel
6 7 8	On the Job Training Work Experience 12:30-3:30 pm	Q1: INDT 104 Q2: ADMF 222 Q3: INDT 113 Q4: ADMF 122	On the Job Training Work Experience 12:30-3:30 pm	Q1: INDT 104 Q2: ADMF 222 Q3: INDT 113 Q4: ADMF 122	On the Job Training Work Experience 12:30-3:30 pm

Benefits for Students

- Graduate from High School with Core 40, or Academic Honors
- Graduate with Associates Degree from IVY Tech
- Have paid work experience during the program
- Get multiple industry certifications
- Tuition paid
- Guarantee of a job after high school with one of our Industry Partners
- Transferable degree to Bachelor’s Degree at Indiana State University
- Mentorship in Career Path

Sample Junior Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
1	English 11	English 11	English 11	English 11	English 11
2	US History	US History	US History	US History	US History
3	Geometry	Geometry	Geometry	Geometry	Geometry
4	Earth Science	Earth Science	Earth Science	Earth Science	Earth Science
5	Lunch/Travel	Lunch/Travel	Lunch/Travel	Lunch/Travel	Lunch/Travel
6	On the Job Training Work Experience 12:30-3:30 pm	Q1: INDT 104 Q2: ADMF 222 Q3: INDT 113 Q4: ADMF 122	On the Job Training Work Experience 12:30-3:30 pm	Q1: INDT 104 Q2: ADMF 222 Q3: INDT 113 Q4: ADMF 122	On the Job Training Work Experience 12:30-3:30 pm
7					
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IVY TECH COMMUNITY COLLEGE

Block Example

SAMPLE JUNIOR SCHEDULE

	Monday	Tuesday	Wednesday	Thursday	Friday
BLOCK - AM	English 11	Geometry	English 11	Geometry	English 11
	US History	Physics	US History	Physics	US History
	Lunch/Travel	Lunch/Travel	Lunch/Travel	Lunch/Travel	Lunch/Travel
PM	On the Job Training Work Experience 12:30-3:30 pm	Q1: INDT 104 Q2: ADMF 222 Q3: INDT 113 Q4: ADMF 122	On the Job Training Work Experience 12:30-3:30 pm	Q1: INDT 104 Q2: ADMF 222 Q3: INDT 113 Q4: ADMF 122	On the Job Training Work Experience 12:30-3:30 pm

WHO IS AMI?

Education	Industry
Center Grove High School Grizzly Cubs Ivy Tech Community College	Endress+Hauser People for Process Automation Cummins NSK Milwaukee

WHEN IS AIM?

2021-22

Cohort 1 (Freshmen)

2022-23

Cohort 1 (Sophomores)

- Summer Coursework

2023-24

Cohort 1 (Juniors)

- Work Experiences
- Summer Coursework

2024-25

Cohort 1 (Seniors)

- Work Experiences Continue
- First Graduates
- Diploma
- AAS
- Employees

BENEFITS

- No college debt
- Earn $14.00*/hour during work experiences
- Gain valuable technical and workplace skills
- Complete high school & college simultaneously
- Direct employment after successful completion

*Estimated Wage

Our Industry and Educational Leaders

- Ivy Tech – Stephanie Amos

Associate of Applied Science – Industrial Technology

ADMF 101 – Key Principles of Advanced Manufacturing	(3 Credits)
ADMF 102 – Technology in Advanced Manufacturing	(3 Credits)
ADMF 112 – Automation – Mechatronics Mechanical Systems	(3 Credits)
ADMF 122 – Automation – Mechatronics Electrical & Robotics Systems	(3 Credits)
ADMF 202 – Automation – Mechatronics Adv. Control System	(3 Credits)
ADMF 222 – Automation – Mechatronics Pressurized Systems	(3 Credits)
INDT 104 – Fluid Power Basics	(3 Credits)
INDT 113 – Basic Electricity	(3 Credits)
INDT 203 – Machine Maintenance	(3 Credits)
INDT 205 – Programmable Controllers I	(3 Credits)
MATH 122 – Applied Technical Mathematics	(3 Credits)
IVYT 113 – Student Success in Technology	(1 Credit)

Technical Certificate for Advanced Automation & Robotics – Total of 34 credits

ADMF 106 – Supervision & Teams at Work	(3 Credits)
DESN 218 – Intro to Statics & Strength of Materials	(3 Credits)
INDT 103 – Motors and Motor Controls	(3 Credits)
INDT 260 – Projects in Manufacturing	(3 Credits)
INDT 279 – Industrial Technology Capstone	(1 Credit)
COMM 104 – Workplace Communications	(3 Credits)
ENGL 111 – English Composition	(3 Credits)
XXXX XXX – Humanities/Social Sci Elective (Foreign Language?)	(3 Credits)
SCIN 100 – Earth Science	(4 Credits)

AAS in Industrial Technology – Total of 60 credits

IVY TECH COMMUNITY COLLEGE

Our Industry Leader

- Nicole Otte – Endress + Hauser

Applications

- Applicants must be:
- Johnson County Class of 2025 or 2026
- Have a GPA of 2.5
- Be a student in Good Standing
- Applications are available here:

TIMELINE

Feb 1 – Info Night & Application Open

Feb 7-10 – Counselors Available for Application Assistance

Feb 16 – Application DUE

Mar 17 – Selections Made

Fall 2022 – High School Classes Begin

Fall 2023 – College Classes Begin at Franklin Ivy Tech

CONTACT INFORMATION

- High Schools: Contact your counselor or
- Tricia Ferguson fergusont@centergrove.k12.in.us

- IVY Tech:
- Stephanie Amos samos4@ivytech.edu>

- Industry Partners:
- Nicole Otte nicole.otte@endress.com

QUESTIONS