

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
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WHY ?

- 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

- 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	On the Job Training Work Experience 12:30-3:30 pm	Q1: IND1 104 Q2: ADMF 222 Q3: IND1 113 Q4: ADMF 122	On the Job Training Work Experience 12:30-3:30 pm	Q1: IND1 104 Q2: ADMF 222 Q3: IND1 113 Q4: ADMF 122	On the Job Training Work Experience 12:30-3:30 pm
7					
8					



Benefits for Students



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- 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
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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
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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 ?

Education	Industry
    	   

WHEN IS



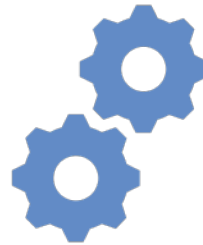
2021-22

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
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Associate of Applied Science – Industrial Technology

ADMF 101 – Key Principles of Advanced Manufacturing	(3 Credits)	ADMF 106 – Supervision & Teams at Work	(3 Credits)
ADMF 102 – Technology in Advanced Manufacturing	(3 Credits)	DESN 218 – Intro to Statics & Strength of Materials	(3 Credits)
ADMF 112 – Automation – Mechatronics Mechanical Systems	(3 Credits)	INDT 103 – Motors and Motor Controls	(3 Credits)
ADMF 122 – Automation – Mechatronics Electrical & Robotics Systems	(3 Credits)	INDT 260 – Projects in Manufacturing	(3 Credits)
ADMF 202 – Automation – Mechatronics Adv. Control System	(3 Credits)	INDT 279 – Industrial Technology Capstone	(1 Credit)
ADMF 222 – Automation – Mechatronics Pressurized Systems	(3 Credits)		
INDT 104 – Fluid Power Basics	(3 Credits)	COMM 104 – Workplace Communications	(3 Credits)
INDT 113 – Basic Electricity	(3 Credits)	ENGL 111 – English Composition	(3 Credits)
INDT 203 – Machine Maintenance	(3 Credits)	XXXX XXX – Humanities/Social Sci Elective (Foreign Language?)	(3 Credits)
INDT 205 – Programmable Controllers I	(3 Credits)	SCIN 100 – Earth Science	(4 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

AAS in Industrial Technology – Total of 60 credits



Our Industry Leader

- Nicole Otte – Endress + Hauser
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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
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QUESTIONS

