

# WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

Earn your associate degree from Clark State College and then transfer seamlessly to Wright State University to earn your bachelor's degree.

**Clark State College**

**Wright State University**

to

**Industrial Technology**

**Industrial and Systems Engineering  
with Applied Systems Concentration**

**Associate of Applied Science**

**Bachelor of Science**



Studies in industrial and systems engineering (ISE) focus on doing more with less—doing things better, cheaper, faster, more safely, and with less waste. Instead of designing bridges, machines, or circuits, industrial engineers will engineer all parts of a process—people, machines, materials, information, and energy—to make a product or provide a service. Students interested in ISE must contact the advising office ([cecs-advisors@wright.edu](mailto:cecs-advisors@wright.edu) or 937-775-5272) at Wright State University as early in their interest as possible.

Students interested in Wright Path program benefits will apply to the program through Wright State website at [wright.edu/wrightpath/clark-state](http://wright.edu/wrightpath/clark-state).

SUBJECT CODE	COURSE NUMBER	CLARK STATE CREDIT HOUR	COURSE TITLE	WRIGHT STATE COURSE #	WRIGHT STATE CREDIT HOUR
EBE	1000	1	Employability Skills	UNK 1XXX <small>General Elective Credit</small>	1
EBE		2	Co-Op Education I	UNK 2XXX <small>General Elective Credit (Excess)</small>	2
ECO	2210	3	Principles of Macroeconomics <small>Social &amp; Behavioral Sciences Ohio Transfer 36</small>	EC 2050 <small>Element 5: Social Science</small>	3
ENG	1111	3	English I	ENG 1100 <small>Element 1: Communication</small>	3
ENG	2211	3	Business Communication	ENG 3000 <small>General Elective Credit (Excess)</small>	3
ENT	1000	3	Introduction to Industrial and Engineering Technology	UNK 1XXX <small>General Elective Credit</small>	3
ENT	1050	4	Manufacturing Foundations	UNK 1XXX <small>General Elective Credit</small>	4
INT	1000	1	OSHA 10-Hour General Safety	UNK 1XXX <small>General Elective Credit</small>	1
INT	1210	1	Pneumatics I	UNK 1XXX <small>General Elective Credit</small>	1
INT	1220	1	Pneumatics II	UNK 1XXX <small>General Elective Credit (Excess)</small>	1
INT	1230	1	Pneumatics Troubleshooting	UNK 1XXX <small>General Elective Credit (Excess)</small>	1
INT	1240	1	Hydraulics I	UNK 1XXX <small>General Elective Credit (Excess)</small>	1

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INT	1250	1	Hydraulics II	UNK 1XXX <small>General Elective Credit (Excess)</small>	1
INT	1260	1	Hydraulics Troubleshooting	UNK 1XXX <small>General Elective Credit (Excess)</small>	1
INT	1310	2	AC/DC Electrical Systems	UNK 1XXX <small>General Elective Credit (Excess)</small>	2
INT	1320	1	Electrical Control Relay	UNK 1XXX <small>General Elective Credit (Excess)</small>	1
INT	1350	3	Motor and Motor Controls	UNK 1XXX <small>General Elective Credit (Excess)</small>	3
INT	1410	2	Mechanical Systems I	UNK 1XXX <small>General Elective Credit (Excess)</small>	2
INT	1420	2	Mechanical Systems II	UNK 1XXX <small>General Elective Credit (Excess)</small>	2
INT	1430	2	Mechanical Systems III	UNK 1XXX <small>General Elective Credit (Excess)</small>	2
INT	2300	3	Electrical Troubleshooting	UNK 2XXX <small>General Elective Credit (Excess)</small>	3
INT	2320	2	DC Electronic Drives	UNK 2XXX <small>General Elective Credit (Excess)</small>	2
INT	2330	2	AC Electronic Drives	UNK 2XXX <small>General Elective Credit (Excess)</small>	2
INT	2500	3	Programmable Logic Control	UNK 2XXX <small>General Elective Credit (Excess)</small>	3
INT	2510	3	Process Control	UNK 2XXX <small>General Elective Credit (Excess)</small>	3
MTH	1115	3	Industrial Calculations	MTH 1XXX <small>General Elective Credit (Excess)</small>	3
PHY	1100	4	Fundamentals of Physics <small>Natural &amp; Physical Science Ohio Transfer 36</small>	PHY 2450 (Substitutes for ISE 1110 Requirement) <small>Element 6: Natural Science</small>	4
PSY	1111	3	Introduction to Psychology <small>Social &amp; Behavioral Sciences Ohio Transfer 36</small>	PSY 1010 <small>Element 5: Social Science</small>	3
<b>TOTAL</b>		<b>61</b>			<b>61</b>

- All students with declared industrial and systems engineering major are automatically admitted as Pre-Industrial and Systems Engineering students.

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- In order to be admitted fully as an industrial and systems engineering major at Wright State, students will need to achieve a cumulative GPA of a 2.25 at Wright State.
- Students must earn a C or higher in ENG 1111 at Clark State.
- Students must earn a C or higher in EGR 1010 or MTH 2240 and PHY 1110/1110L at Wright State.
- 159 hours minimum are required for a BS degree at Wright State.

FIRST YEAR							
Clark State College				Wright State University			
SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS	SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER							
EBE	1000	Employability Skills	1	UNK	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit</small>	1
ENT	1000	Introduction to Industrial and Engineering Technology	3	UNK	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit</small>	3
ENT	1050	Manufacturing Foundations	4	UNK	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit</small>	4
INT	1000	OSHA 10-Hour General Safety	1	UNK	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit</small>	1
INT	1210	Pneumatics I	1	UNK	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit</small>	1
INT	1220	Pneumatics II	1	UNK	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	1
INT	1230	Pneumatics Troubleshooting	1	UNK	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	1
INT	1310	AC/DC Electrical Systems	2	UNK	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	2
SPRING SEMESTER							
ENG	1111	English I	3	ENG	1100	Academic Writing and Reading <small>Element 1: Communication</small>	3
INT	1240	Hydraulics I	1	UNK	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	1
INT	1250	Hydraulics II	1	UNK	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	1
INT	1260	Hydraulics Troubleshooting	1	UNK	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	1
INT	1320	Electrical Control Relay	1	UNK	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	1
INT	1350	Motor and Motor Controls	3	UNK	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	3
INT	1410	Mechanical Systems I	2	UNK	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	2

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SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS	SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
MTH	1115	Industrial Calculations	3	MTH	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	3
SUMMER SEMESTER							
EBE		Co-Op Education I	2	UNK	2XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	2
Total Hours:			31	Total Hours:			31

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SECOND YEAR							
Clark State College				Wright State University			
SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS	SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER							
INT	1420	Mechanical Systems II	2	UNK	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	2
INT	1430	Mechanical Systems II	2	UNK	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	2
INT	2300	Electrical Troubleshooting	3	UNK	2XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	3
INT	2320	DC Electronic Drives	2	UNK	2XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	2
INT	2500	Programmable Logic Control	3	UNK	2XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	3
INT	2510	Process Control	3	UNK	2XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	3
SPRING SEMESTER							
ECO	2210	Principles of Macroeconomics <small>Social &amp; Behavioral Sciences Ohio Transfer 36</small>	3	EC	2050	Principles of Macroeconomics <small>Element 5: Social Science</small>	3
ENG	2211	Business Communication	3	ENG	3000	Business Writing <small>General Elective Credit (Excess)</small>	3
INT	2330	AC Electronic Drives	2	UNK	2XXX	Non-Equivalent Transfer Course <small>General Elective Credit (Excess)</small>	3
PHY	1100	Fundamentals of Physics <small>Natural &amp; Physical Science Ohio Transfer 36</small>	4	PHY	2450	Concepts in Physics for Early Childhood Education (Substitute for ISE 1110 Requirement) <small>Element 6: Natural Science</small>	4
PSY	1111	Introduction to Psychology <small>Social &amp; Behavioral Sciences Ohio Transfer 36</small>	3	PSY	1010	Introduction to Psychology <small>Element 5: Social Science</small>	3
Total Hours:			30	Total Hours:			30

**Total Credit Hours for Associate Degree: 61**

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THIRD YEAR			
Wright State University			
SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER			
EGR	1010	Introductory Mathematics for Engineering Applications <small>Additional Core Course</small>	4
EGR	3350	Technical Communications for Engineers and Computer Scientists <small>Element 1: Communication</small>	3
ME	1040	Engineering Design and Solid Modeling	3
PHY	1110	Principles of Physics I <small>Element 6: Natural Science</small>	4
PHY	1110L	Principles of Physics I Lab <small>Element 6: Natural Science</small>	1
SPRING SEMESTER			
CS	1160	Introduction to Computer Programming	4
ISE	2211	Statistics for Engineers	3
MTH	2240	Applied Calculus <small>Element 2: Mathematics</small>	4
PHY	1120	Principles of Physics II <small>Additional Core Course</small>	4
PHY	1120L	Principles of Physics II Lab <small>Additional Core Course</small>	1
SUMMER SEMESTER			
		Element 3: Global Traditions <small>Multicultural Competence Integrated Writing</small>	3
Total Hours:			34

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FOURTH YEAR			
Wright State University			
SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER			
ISE	4150	Advanced Probability and Statistics for Engineering	3
ISE	4300	Fundamentals of Human Factors Engineering	3
ISE	4711	Optimization Methods	3
ISE	4850	Six Sigma for Engineers	3
MTH	2570	Discrete Mathematics for Computing	4
SPRING SEMESTER			
ISE	4320	Human-System Interaction and Usability Engineering	3
ISE	4510	Computer Applications in ISE	4
ISE	4712	Simulation and Stochastic Models	4
ISE	4820	Supply Chain Analysis and Design	3
		Element 4: Arts/Humanities <small>Multicultural Competence Integrated Writing</small>	3
SUMMER SEMESTER			
		Element 3: Global Traditions (History)	3
<b>Total Hours:</b>			<b>36</b>

FIFTH YEAR			
Wright State University			
SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER			
ISE	4310	Ergonomics	3
ISE	4400	Engineering Economy	3
ISE	4810	Production and Service Systems	3
ISE	4910	Industrial and Systems Engineering Design I	3
PSY	3010	Research Methods in Psychology	4
SPRING SEMESTER			
CS	2800	Web Development I	3
ISE	4920	Industrial Systems Design Engineering Design II	3
MGT	3100	Management and Organizational Behavior	3
MIS	3000	Fundamentals of Information Systems	3
<b>Total Hours:</b>			<b>28</b>

**Total Credit Hours for Bachelor's Degree: 159**

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## 1. ADMISSIONS AND DEADLINES

### *Join the Wright Path Program*

Students interested in applying to the Wright Path must submit a request for membership at [wright.edu/wrightpath/clark-state](http://wright.edu/wrightpath/clark-state).

High School students must have completed their junior year before applying to the Wright Path, and current Clark State College students must have a minimum 2.0 GPA.

### *Transfer to Wright State University*

Students must earn a minimum 2.0 GPA from Clark State College in order to transfer to Wright State.

Wright State processes applications as they are received. To help you make a smooth and timely transition, we recommend you submit your application by the following dates:

Fall Semester:	<b>April 1</b>
Spring Semester:	<b>October 15</b>
Summer Semester:	<b>February 1</b>

Students must apply to the Undergraduate Admission one semester prior to completing their studies at Clark State College.

In order to be admitted fully as an industrial and systems engineering major at Wright State, students will need to earn a cumulative GPA of a 2.25 at Wright State.

Students must earn a C or higher in ENG 1111 at Clark State.

Students must earn a C or higher in EGR 1010 or MTH 2240 and PHY 1110/1110L at Wright State.

## 2. TUITION AND SCHOLARSHIPS

*Students interested in scholarship opportunities at Wright State should contact:*

Transfer Student Resource Center  
Student Union 138  
3640 Colonel Glenn Hwy.



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Dayton, OH 45435  
937-775-5700  
transfer@wright.edu

## 3. CONTACT INFORMATION

*Clark State College*  
*Travis Binkley, Associate Dean*  
*Academic Services*  
*binkleyt@clarkstate.edu*  
*937-431-7157*

*Wright State University*  
*Transfer Student Resource Center*  
*138 Student Union*  
*3640 Colonel Glenn Hwy.*  
*937-775-5700*

This agreement will expire two years from date of signature.



11/18/2022

Dr. Richard Woodfield  
Interim Vice President of Academic Affairs  
Clark State College

Date



11/18/2022

Dr. Amy Thompson  
Provost and Senior Vice President for Academic Affairs  
Wright State University

Date