

WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

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

Edison State Community College

to

Wright State University

**Industrial and Systems Engineering
with Humans and Systems
Concentration
Bachelor of Science**

Associate 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 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/edisonstate.

SUBJECT CODE	COURSE NUMBER	EDISON STATE CREDIT HOUR	COURSE TITLE	WRIGHT STATE COURSE #	WRIGHT STATE CREDIT HOUR
BIO CHM	121S or 121S	4 or 5	Intro Biology: Cells/Genetics/ Evolution General Chemistry I <small>Elective</small>	BIO 1120 or CHM 1210 + 1210L <small>Element E: Natural Science</small>	4 or 3+2
BUS	221S	3	Principles of Organizational Behavior <small>Elective</small>	MGT 3100 <small>Other Requirement</small>	3
CIS	110S	3	Computer Concepts and Applications	CS 1010 <small>General Elective Credit</small>	3
CIS	221S	3	Java Programming I <small>Elective</small>	CS 1180 (Substitutes for CS 1160 Requirement) <small>CECS Course</small>	3
COM	121S	3	Introduction to Communication	COM 1010 <small>General Elective Credit</small>	3
ENG	121S	3	Composition I	ENG 1100 <small>Element A: Communication</small>	3
ENG	125S	3	Technical Writing <small>Elective</small>	EGR 3350 <small>Element A: Communication</small>	3
MTH	221S	5	Calculus/Analytical Geometry I <small>Mathematics, Statistics, & Logic Ohio Transfer 36</small>	MTH 2300 + Elective <small>Element B: Mathematics + General Elective Credit</small>	4+1
MTH	222S	5	Calculus/Analytical Geometry II <small>Elective</small>	MTH 2310 + Elective <small>Element B: Mathematics + General Elective Credit</small>	4+1

WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

Edison State Community College

to

Wright State University

Associate of Science

**Industrial and Systems Engineering
with Humans and Systems
Concentration
Bachelor of Science**

MUS REL	127S or 121S	3	Music as a World Phenomenon World Religions <small>Arts & Humanities Ohio Transfer 36 Diversity</small>	MUS 2420 or REL 2320 <small>Element C: Arts and Humanities</small>	3
PHY	121S or 241S	5	College Physics I Science and Engineering Physics I <small>Natural & Physical Sciences Ohio Transfer 36</small>	PHY 1110 + 1110L or PHY 2400 + 2400L <small>Element E: Natural Science</small>	4+1
PHY	122S or 242S	5	College Physics II Science and Engineering Physics II <small>Natural & Physical Sciences Ohio Transfer 36</small>	PHY 1120 + 1120L or PHY 2410 + 2410L <small>Element E: Natural Science</small>	4+1
PSY	121S	3	Introduction to Psychology <small>Social & Behavioral Science Ohio Transfer 36</small>	PSY 1010 <small>Element D: Social and Behavioral Science</small>	3
		3	Statistics for Engineers <small>Elective (Completed at Wright State through SOCHE Agreement While Studying at Edison State)</small>	ISE 2211 <small>Department Course</small>	3
		3	Engineering Design and Solid Modeling <small>Elective (Completed at Wright State through SOCHE Agreement While Studying at Edison State)</small>	ME 1040 <small>CECS Course</small>	3
		3	One Ohio Transfer 36 Arts & Humanities Course (from List Below)	Element C: Arts and Humanities	3
		3	One Ohio Transfer 36 Social & Behavioral Science History Course (from List Below)	Element C: Arts and Humanities - History	3
TOTAL		60-61			60-61

- Choose one Ohio Transfer 36 Arts and Humanities course from:

EDISON STATE COURSE	EDISON STATE CREDIT HOUR	COURSE TITLE	WRIGHT STATE COURSE #	WRIGHT STATE CREDIT HOUR
ART 123S	3	Ancient Art History	ART 2110	3
ART 124S	3	Art History: The Modern Era	ART 2120	3
ENG 123S	3	Introduction to Literature	ENG 1XXX	3

WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

Edison State Community College

to

Wright State University

**Industrial and Systems Engineering
with Humans and Systems
Concentration
Bachelor of Science**

Associate of Science

EDISON STATE COURSE	EDISON STATE CREDIT HOUR	COURSE TITLE	WRIGHT STATE COURSE #	WRIGHT STATE CREDIT HOUR
ENG 205S	3	Great Books	ENG 2040	3
ENG 221S	3	American Literature I	ENG 3310	3
ENG 222S	3	American Literature II	ENG 3320	3
ENG 241S	3	British Literature I – Middle Ages/Restoration	ENG 3210 or ENG 3220	3
ENG 242S	3	British Literature II – Romantics/20 th Century	ENG 3230	3
HST 224S	3	African American History Since 1619	HST 2XXX	3
HUM 121S	3	Introduction to Humanities	HUM 1XXX	3
MUS 120S	3	Music Appreciation	MUS 2140	3
MUS 127S	3	Music as a World Phenomenon	MUS 2420 <small>Inclusive Excellence</small>	3
PHI 121S	3	Introduction to Philosophy	PHL 2050	3
PHI 123S	3	Introduction to Ethics	PHL 3110	3
REL 121S	3	World Religions	REL 2320	3
THE 121S	3	Introduction to Theatre	TH 2140	3

- Choose one Ohio Transfer 36 Social and Behavioral Science history course from:

EDISON STATE COURSE	EDISON STATE CREDIT HOUR	COURSE TITLE	WRIGHT STATE COURSE #	WRIGHT STATE CREDIT HOUR
HST 121S	3	United States History to 1877	HST 2110	3
HST 122S	3	United States History Since 1877	HST 2120	3
HST 125S	3	Western Civilization to 1715	HST 1100	3
HST 126S	3	Western Civilization Since 1715	HST 1200	3

- If PHY 241S and/or 242S are not offered at Edison, students are strongly recommended to take the course(s) at Wright State using SOCHE Cross Registration program.
- All students with declared Industrial and Systems Engineering major are automatically admitted as Pre-Industrial and Systems Engineering students.
- 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 121S, MTH 221S, and PHY 121S or 241S at Edison State.
- 120 hours minimum are required for a BS degree at Wright State.

WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

Edison State Community College

to

Wright State University

Associate of Science

Industrial and Systems Engineering
with Humans and Systems
Concentration
Bachelor of Science

FIRST YEAR							
Edison State Community College				Wright State University			
SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS	SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER							
BIO	121S or	Intro Biology: Cells/Genetics/ Evolution	4 or	BIO	1120 or	Cells and Genes	4 or
CHM	121S	General Chemistry I <small>Elective</small>	5	CHM	1210 + 1210L	General Chemistry I + Lab <small>Element E: Natural Science</small>	3+2
ENG	121S	Composition I	3	ENG	1100	Academic Writing and Reading <small>Element A: Communication</small>	3
MTH	221S	Calculus/Analytical Geometry I <small>Mathematics, Statistics, & Logic Ohio Transfer 36</small>	5	MTH	2300	Calculus I + Elective <small>Element B: Mathematics + General Elective Credit</small>	4+1
		Ohio Transfer 36 Social & Behavioral Science History Course	3			Element C: Arts and Humanities - History	3
SPRING SEMESTER							
COM	121S	Introduction to Communication	3	COM	1010	Essentials of Public Address <small>General Elective Credit</small>	3
MTH	222S	Calculus/Analytical Geometry II <small>Elective</small>	5	MTH	2310	Calculus II + Elective <small>Element B: Mathematics + General Elective Credit</small>	4+1
PHY	121S or 241S	College Physics I Science and Engineering Physics I <small>Natural & Physical Sciences Ohio Transfer 36</small>	5	PHY	1110 + 1110L or 2400 + 2400L	Principles of Physics I General Physics I + Lab <small>Element E: Natural Science</small>	4+1
PSY	121S	Introduction to Psychology <small>Social & Behavioral Science Ohio Transfer 36</small>	3	PSY	1010	Introduction to Psychology <small>Element D: Social and Behavioral Science</small>	3
SUMMER SEMESTER							
		Ohio Transfer 36 Arts & Humanities Course	3			Element C: Arts and Humanities	3
Total Hours:			34-35	Total Hours:			34-35

WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

Edison State Community College

to

Wright State University

**Industrial and Systems Engineering
with Humans and Systems
Concentration
Bachelor of Science**

Associate of Science

SECOND YEAR							
Edison State Community College				Wright State University			
SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS	SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER							
CIS	110S	Computer Concepts and Applications	3	CS	1010	Introduction to Computers and Office Productivity Tools <small>General Elective Credit</small>	3
ENG	125S	Technical Writing <small>Elective</small>	3	EGR	3350	Technical Communications for Engineers and Scientists <small>Element A: Communication</small>	3
PHY	122S or 242S	College Physics II Science and Engineering Physics II <small>Natural & Physical Sciences Ohio Transfer 36</small>	5	PHY	1120 + 1120L or 2410 + 2410L	Principles of Physics II General Physics II + Lab <small>Element E: Natural Science</small>	4+1
		Elective (Completed at Wright State through SOCHE Agreement While Studying at Edison State)	3	ME	1040	Engineering Design and Solid Modeling <small>CECS Course</small>	3
SPRING SEMESTER							
BUS	221S	Principles of Organizational Behavior <small>Elective</small>	3	MGT	3100	Management and Organizational Behavior <small>Other Requirement</small>	3
CIS	221S	Java Programming I <small>Elective</small>	3	CS	1180	Computer Science I (Substitutes for CS 1160 Requirement) <small>CECS Course</small>	3
MUS REL	127S or 121S	Music as a World Phenomenon World Religions <small>Arts & Humanities Ohio Transfer 36 Diversity</small>	3	MUS REL	2420 or 2320	Comparative Nonwestern Cultures – Music Nonwestern Religions <small>Element C: Arts and Humanities</small>	3
		Elective (Completed at Wright State through SOCHE Agreement While Studying at Edison State)	3	ISE	2211	Statistics for Engineers <small>Department Course</small>	3
Total Hours:			26	Total Hours:			26

Total Credit Hours for Associate Degree: 60-61

WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

Edison State Community College

to

Wright State University

Associate of Science

Industrial and Systems Engineering
with Humans and Systems
Concentration
Bachelor of Science

THIRD YEAR

Wright State University

SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER			
ISE	1110	Introduction to Engineering Science Applications for All <small>Element E: Natural Science</small>	4
ISE	4150	Advanced Probability and Statistics for Engineering	3
ISE	4300	Fundamentals of Human Factors Engineering	3
ISE	4711	Optimization Methods	3
MTH	2530	Elementary Linear Algebra	3
SPRING SEMESTER			
CS MTH	2200 or 2570	Discrete Structures and Their Algorithms Discrete Mathematics for Computing	4
CS ISE	3840 or 3540	Applied Machine Learning Introduction to Machine Learning in Engineering Applications	3
ISE	4320	Human-System Interaction and Design Thinking Principles	3
ISE	4510	Computer Applications in ISE	3
ISE	4712	Simulation and Stochastic Models	4
Total Hours:			33

FOURTH 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	4850	Six Sigma for Engineers	3
ISE	4910	Industrial and Systems Engineering Design I	3
SPRING SEMESTER			
ISE	4820	Supply Chain Analysis and Design	3
ISE	4920	Industrial and Systems Engineering Design II	3
		Technical Elective	3
		Technical or General Elective Credit	2-3
Total Hours:			26-27

WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

Edison State Community College

to

Wright State University

Associate of Science

Industrial and Systems Engineering
with Humans and Systems
Concentration
Bachelor of Science

Total Credit Hours for Bachelor's Degree: 120

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/edisonstate.

High school students must be close to graduating before applying to the Wright Path, and current Edison State students must have a minimum 2.0 GPA.

Transfer to Wright State University

Students must earn a minimum 2.0 GPA from Edison State 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:	April 1
Spring Semester:	October 15
Summer Semester:	February 1

Students must apply for undergraduate admission one semester prior to completing their studies at Edison State.

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 121S, MTH 221S, and PHY 121 or 241S at Edison State.

2. TUITION AND SCHOLARSHIPS

Students interested in scholarship opportunities at Wright State should contact:

Transfer Center

WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

Edison State Community College

to

Wright State University

Associate of Science

Industrial and Systems Engineering
with Humans and Systems
Concentration
Bachelor of Science

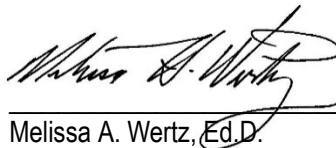
138 Student Union
3640 Colonel Glenn Hwy.
Dayton, OH 45435
937-775-5700
transfer@wright.edu

3. CONTACT INFORMATION

Edison State Community College
Coordinator of Transfer Pathways Advising
Student Services Room #160
1973 Edison Dr., Piqua, OH
937-778-7844

Wright State University
Transfer Center
138 Student Union
3640 Colonel Glenn Hwy. Dayton, OH
937-775-5700

This agreement will expire two years from date of signature.



18 November 2024

Melissa A. Wertz, Ed.D.
Provost
Edison State Community College

Date



11/18/2024

Amy Thompson, Ph.D.
Provost and Senior Vice President for Academic Affairs
Wright State University

Date