

PARTNERSHIP ARTICULATION AGREEMENT

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

Columbus State Community College

to

**Wright State University
(Dayton Campus – In-Person or
Online)**

Associate of Science

**Industrial and Systems Engineering
with Humans & Systems
Concentration
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 or 937-775-5272) at Wright State University as early in their interest as possible.

SUBJECT CODE	COURSE NUMBER	COLUMBUS STATE CREDIT HOUR	COURSE TITLE	WRIGHT STATE COURSE #	WRIGHT STATE CREDIT HOUR
COLS	1100 or 1101	1	First Year Experience Seminar College Success Skills	UNK 1XXX <small>General Elective Credit</small>	1
CSCI	1103	3	Intro to Programming Logic <small>Elective</small>	CS 1XXX <small>General Elective Credit</small>	3
CSCI	1145	3	HTML <small>Elective</small>	CS 1XXX <small>General Elective Credit</small>	3
CSCI	2467	3	Java Programming I <small>Elective</small>	CS 1180 (Substitutes for CS 1160 Requirement) <small>CECS Courses</small>	3
ENGL	1100 or 1101	3	Composition I Composition IW: Composition Workshop	ENG 1100 <small>Element 1: Communication</small>	3
ENGL	2367, 2567, 2667, or 2767	3	Composition II Comp II Writing about Gender & Identity Comp II American Working-Class Identity Comp II Writing about Science/Technology	ENG 2100 <small>General Elective Credit</small>	3
ENGR	1181 + 1182	3+3	Fundamentals of Engineering I Fundamentals of Engineering II <small>Elective</small>	ME 1040 + Elective <small>CECS Courses + General Elective Credit</small>	3+3
HIST	1111 or 1112	3	European History to 1648 European History Since 1648 <small>Historical Study</small>	HST 1100 or HST 1200 <small>Element 3: Global Traditions</small>	3

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MATH	1151	5	Calculus I	MTH 2300 + Elective <small>Element 2: Mathematics + General Elective Credit</small>	4+1
MATH	1152 or 1172	5	Calculus II Engineering Mathematics A	MTH 2310 + Elective <small>Additional Core Course</small>	4+1
PHYS	1200 or 1250	5	Introductory Algebra-Based Physics I Calculus- Based Physics I	PHY 1110 + 1110L or PHY 2400 + 2400L <small>Element 6: Natural Science</small>	4+1
PHYS	1201 or 1251	5	Algebra-Based Physics II Calculus-Based Physics II	PHY 1120 + 1120L or PHY 2410 + 2410L <small>Additional Core Course</small>	4+1
PSY	1100	3	Introduction to Psychology <small>Social & Behavioral Sciences Ohio Transfer 36 Individuals & Groups</small>	PSY 1010 <small>Element 5: Social Science</small>	3
STAT	2470	4	Intro Probability Statistics Eng & Sci <small>Additional Math or Science</small>	ISE 2211 + Elective	3+1
		3	One Ohio Transfer 36 Arts & Humanities Course That Is Not History	Element 4: Arts/Humanities	3
		3	One Ohio Transfer 36 Social & Behavioral Sciences Course <small>Organizations & Politics or Human, Natural & Economic Resources</small>	Element 5: Social Science	3
		4-5	One Ohio Transfer 36 Natural & Physical Science Course <small>Elective</small>	Element 6: Natural Science (Substitutes for ISE 1110 Requirement)	4-5
TOTAL		62-63			62-63

- All students with declared 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 MATH 1151, ENGL 1100 or 1101, and PHYS 1200 or 1250 at Columbus State.
- 121-122 hours minimum are required for a BS degree at Wright State.

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FIRST YEAR							
Columbus State Community College				Wright State University			
SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS	SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER							
COLS	1100 or 1101	First Year Experience Seminar College Success Skills	1	UNK	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit</small>	1
CSCI	1103	Intro to Programming Logic <small>Elective</small>	3	CS	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit</small>	3
ENGL	1100 or 1101	Composition I Composition IW: Composition Workshop	3	ENG	1100	Academic Writing and Reading <small>Element 1: Communication</small>	3
MATH	1151	Calculus I	5	MTH	2300	Calculus I + Elective <small>Element 2: Mathematics + General Elective Credit</small>	4+1
PHYS	1200 or 1250	Introductory Algebra-Based Physics I Calculus-Based Physics I	5	PHY	1110 + 1110L or 2400 + 2400L	Principles of Physics I + Lab General Physics I + Lab <small>Element 6: Natural Science</small>	4+1
SPRING SEMESTER							
CSCI	1145	HTML <small>Elective</small>	3	CS	1XXX	Non-Equivalent Transfer Course <small>General Elective Credit</small>	3
ENGR	1181	Fundamentals of Engineering I <small>Elective</small>	3	UNK	1XXX	Non-Equivalent Transfer Course (ME 1040 Is Awarded after Completing Both ENGR 1181 and 1182) <small>General Elective Credit</small>	3
MATH	1152 or 1172	Calculus II Engineering Mathematics A	5	MTH	2310	Calculus II + Elective <small>Additional Core Course</small>	4+1
PHYS	1201 or 1251	Algebra-Based Physics II Calculus-Based Physics II	5	PHY	1120 + 1120L or 2410 + 2410L	Principles of Physics II + Lab General Physics II + Lab <small>Additional Core Course</small>	4+1
Total Hours:			33	Total Hours:			33

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SECOND YEAR							
Columbus State Community College				Wright State University			
SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS	SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER							
CSCI	2467	Java Programming I <small>Elective</small>	3	CS	1180	Computer Science I (Substitutes for CS 1160 Requirement) <small>CECS Courses</small>	3
ENGL	2367, 2567, 2667, or 2767	Composition II Comp II Writing about Gender & Identity Comp II American Working-Class Identity Comp II Writing about Science/Technology	3	ENG	2100	Research Writing and Argumentation <small>General Elective Credit</small>	3
HIST	1111 or 1112	European History to 1648 European History Since 1648 <small>Historical Study</small>	3	HST	1100 or 1200	Western Civilizations to 1500 The West and the World Since 1500 <small>Element 3: Global Traditions</small>	3
PSY	1100	General Psychology <small>Social & Behavioral Sciences Ohio Transfer 36 Elective (Individuals & Groups)</small>	3	PSY	1010	Introduction to Psychology <small>Element 5: Social Science</small>	3
		Ohio Transfer 36 Social & Behavioral Sciences Course <small>Organizations & Politics or Human, Natural & Economic Resources</small>	3			Element 5: Social Science	3
SPRING SEMESTER							
ENGR	1182	Fundamentals of Engineering II <small>Elective</small>	3	ME	1040	Engineering Design and Solid Modeling (ME 1040 Is Awarded after Completing Both ENGR 1181 and 1182) <small>CECS Courses</small>	3
STAT	2470	Intro Probability Statistics Eng & Sci <small>Additional Math or Science</small>	4	ISE	2211	Statistics for Engineers + General Elective Credit	3+1
		Ohio Transfer 36 Arts & Humanities That Is Not History	3			Element 4: Arts/Humanities	3
		Ohio Transfer 36 Natural & Physical Science Course <small>Elective</small>	4-5			Element 6: Natural Science (Substitutes for ISE 1110 Requirement)	4-5
Total Hours:			29-30	Total Hours:			29-30

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Total Credit Hours for Associate Degree: 62-63

THIRD 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
MGT	3100	Management and Organizational Behavior	3
SPRING SEMESTER			
CS	2800	Web Development I	3
EGR	3350	Technical Communications for Engineers and Scientists Element 1: Communication	3
ISE	4320	Human-System Interaction and Usability Engineering	3
ISE	4510	Computer Applications in ISE	3
ISE	4712	Simulation and Stochastic Models	4
Total Hours:			31

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	4910	Industrial and Systems Engineering Design I	3
SPRING SEMESTER			
ISE	4820	Supply Chain Analysis and Design	3
ISE	4920	Industrial Systems Design Engineering Design II	3
MIS	3000	Fundamentals of Information Systems	3
PSY	3010	Research Methods in Psychology	4
		Technical or General Elective Credit	3
Total Hours:			28

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Total Credit Hours for Bachelor's Degree: 121-122

1. ADMISSIONS AND DEADLINES

Transfer to Wright State University

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

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

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 MATH 1151, ENGL 1100 or 1101, and PHYS 1200 or 1250 at Columbus State.

2. TUITION AND SCHOLARSHIPS

Students interested in scholarship opportunities at Wright State should contact:

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

3. CONTACT INFORMATION

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*Columbus State Community College
University Transfer Center
126 Aquinas Hall
550 East Spring St., Columbus, OH
614-287-2184*

*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.

DocuSigned by:
Kelly Hogan 11/3/2023
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Kelly Hogan, Ed.D. Date
Associate Vice President for Academic Affairs
Columbus State Community College

Amy Thompson 11/6/2023

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

DocuSigned by:
Allysen Todd 11/3/2023
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Allysen Todd
Dean of Arts and Sciences
CSCC

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