

WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

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

Sinclair College

Wright State University

to

Industrial Engineering 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 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 the Wright State website at wright.edu/wrightpath/sinclair.

SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	WRIGHT STATE COURSE #	WRIGHT STATE CREDIT HOUR
CAM	1107	3	Introduction to Mechanical Drafting with AutoCAD	ME 1XXX (Substitutes for ME 1040 Requirement)	3
COM	2211	3	Effective Public Speaking	COM 1010 <small>General Elective Credit</small>	3
ENG	1101	3	English Composition I	ENG 1100 <small>Element 1: Communication</small>	3
ISE	1100	2	Tooling & Machining Metrology	UNK 1XXX <small>General Elective Credit</small>	2
ISE	1101	3	Introduction to Industrial Engineering Technology	ISE 1XXX (Substitutes for ISE 1110 Requirement) <small>Element 6: Natural Science</small>	3
ISE	1110	3	Operations Work Measurement & Ergonomics	ISE 1XXX <small>General Elective Credit (Excess)</small>	3
ISE	1112	3	World Class Quality Systems & Procedures	ISE 1XXX <small>General Elective Credit (Excess)</small>	3
ISE	1113	3	Coordinate Measurement	UNK 1XXX <small>General Elective Credit</small>	3
ISE	1125 or 2205	3	World Class Operations Manufacturing Processes <small>Industrial Engineering Technology Elective</small>	UNK 1XXX or UNK 2XXX <small>General Elective Credit (Excess)</small>	3
ISE	1126	3	Supervision, Team Leadership & Project Management	UNK 1XXX <small>General Elective Credit (Excess)</small>	3

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ISE	1130	3	Lean Operations & Continuous Improvement	UNK 1XXX General Elective Credit (Excess)	3
ISE	2201	3	Statistical Process Control	ISE 2XXX General Elective Credit (Excess)	3
ISE	2208	3	Engineering Technology Economics & Cost Analysis	ISE 2XXX General Elective Credit (Excess)	3
ISE	2216	3	Work Flow Layout & Efficiency	ISE 2XXX General Elective Credit (Excess)	3
ISE	2240	3	Six Sigma: Green Belt	ISE 2XXX (Substitutes for ISE 4850 Requirement)	3
ISE	2270 or 2780	3	Operations Technology Internship Operations Technology Capstone	UNK 2XXX (Substitutes for CS 2800 Requirement)	3
MAN	2150	3	Management & Organizational Behavior	MGT 3100	3
MAT	1580	5	Precalculus	MTH 1340 General Elective Credit (Excess)	5
MET	1131	1	Personal Computer Applications for Engineering Technology	CS 1XXX General Elective Credit	1
PHY	1141	4	College Physics I	PHY 1110 + 1110L Element 6: Natural Science	3+1
		3	Ohio Transfer 36 Arts & Humanities Course	Element 3: Global Traditions, Element 3 Global Traditions History, or Element 4: Arts/Humanities	3
TOTAL		63			63

- Choose one Ohio Transfer 36 Arts & Humanities course from (Consult with your Sinclair and Wright State advisors for additional course options):

SINCLAIR COURSE	SINCLAIR CREDIT HOUR	COURSE TITLE	WRIGHT STATE COURSE #	WRIGHT STATE CREDIT HOUR
ART 1110	3	Art Appreciation: Introduction to Art & Art Media	ART 2140	3
ART 2230	3	Art History: Ancient through Medieval Periods	ART 2110	3

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ART 2231	3	Art History: Renaissance through Contemporary Periods	ART 2120	3
ART 2235	3	History of Photography	ART 2XXX	3
ART 2236	3	History of Women Artists	ART 2XXX	3
ART 2237	3	History of American Art	ART 2XXX	3
ART 2238	3	History of African Art	RST 2XXX	3
DAN 1155	3	Dance History	DAN 2510 + 2520	3
DAN 1157	3	Dance Appreciation	DAN 1XXX	3
HIS 1101	3	United States History I	HST 2110	3
HIS 1102	3	United States History II	HST 2120	3
HIS 1105	3	African American History	HST 1XXX	3
HIS 1111	3	Western Civilization I	HST 1100 Element 3: Global Traditions History	3
HIS 1112	3	Western Civilization II	HST 1200 Element 3: Global Traditions History	3
HIS 2215	3	Survey of African History	RST 2710 Element 3: Global Traditions	3
HIS 2216	3	Survey of Latin American History	RST 2810 Element 3: Global Traditions	3
HIS 2217	3	Survey of East Asian History	RST 2XXX Element 3: Global Traditions	3
HIS 2218	3	History of Ohio	HST 2XXX	3
HUM 1125	3	Introduction to the Humanities	HUM 1XXX	3
HUM 1130	3	Humanity & the Challenge of Technology	CS 1XXX	3
HUM 1131	3	The Search for Utopia	PHL 1XXX	3
HUM 1135	3	Environmental Ethics	EES 2600 Element 3: Global Traditions	3
HUM 1140	3	Appalachian Folkways	HST 1XXX	3
HUM 1141	3	Appalachian History & Culture	UNK 1XXX	3
LIT 2201	3	British Literature I	ENG 3210 or ENG 3220	3
LIT 2202	3	British Literature II	ENG 3230	3

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LIT 2211	3	American Literature I	ENG 3310	3
LIT 2212	3	American Literature II	ENG 3320	3
LIT 2217	3	Images of Women in Literature	ENG 2XXX	3
LIT 2220	3	Introduction to Literature	ENG 2XXX	3
LIT 2230	3	Great Books of the Western World	ENG 2040	3
LIT 2234	3	Literature of Africa, Asia & Latin America	ENG 2310 <small>Element 3: Global Traditions</small>	3
LIT 2236	3	African-American Literature	ENG 2050	3
LIT 2400	3	Children's & Adolescent Literature	ENG 2XXX	3
MUS 1121	3	Music Appreciation	MUS 2140	3
MUS 1123	3	World Music	MUS 2420 <small>Element 3: Global Traditions</small>	3
MUS 2117	3	Surveys of Musical Styles I	MUS 1210	3
MUS 2118	3	Survey of Musical Styles II	MUS 2XXX	3
PHI 2204	3	Great Books: Philosophy	PHL 2040	3
PHI 2205	3	Introduction to Philosophy	PHL 2050	3
PHI 2206	3	Introduction to Ethics	PHL 3110	3
REL 1111	3	Eastern Religions	REL 2320 <small>Element 3: Global Traditions</small>	3
REL 1112	3	Western Religions	REL 2070	3
REL 1135	3	American Religious Movements	REL 1XXX	3
REL 2204	3	Great Books: The Bible & Western Culture	REL 2040	3
REL 2255	3	People & Religion	REL 2XXX	3
THE 1101	3	Theatre Appreciation	TH 2140	3
THE 2201	3	History of Theatre I	TH 2XXX	3
THE 2202	3	History of Theatre II	TH 2XXX	3

- 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 EGR 1101, ENG 1101, and PHY 1141 at Sinclair.
- 150 hours minimum are required for a BS degree at Wright State.

Total Credit Hours for Associate Degree: 63

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Students must complete the following coursework at Sinclair prior to transferring to Wright State in order to graduate from Wright State in a timely manner:

SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	WRIGHT STATE COURSE #	WRIGHT STATE CREDIT HOUR
CIS	2266	3	Python for Data Analytics	CS 2XXX (Substitutes for CS 1160 Requirement)	3
EGR	1101	4	Introductory Math for Engineering Applications	EGR 1010 <small>Additional Core Course</small>	4
PSY	1100	3	General Psychology	PSY 1010 <small>Element 5: Social Science</small>	3
TOTAL		10			10

- Students must earn a C or higher in EGR 1101 at Sinclair.

Students must complete the following coursework prior to starting their first semester at Wright State in order to graduate with a bachelor's degree in a timely manner:

WRIGHT STATE SUBJECT	WRIGHT STATE COURSE NUMBER	COURSE TITLE	WRIGHT STATE CREDIT HOUR
ISE	2211	Statistics for Engineers	3
TOTAL			3

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THIRD YEAR

Wright State University

SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
SUMMER SEMESTER			
ISE	2211	Statistics for Engineers (Summer Offering May or May Not Be Available. Check with Your Academic Advisor from Wright State)	3
FALL SEMESTER			
ISE	4150	Advanced Probability and Statistics for Engineering	3
ISE	4300	Fundamentals of Human Factors Engineering	3
ISE	4711	Optimization Methods	3
MTH	2570	Discrete Mathematics for Computing	4
PHY	1120	Principles of Physics II	4
PHY	1120L	Principles of Physics II Lab	1
SPRING SEMESTER			
EGR	3350	Technical Communications for Engineers and Scientists	3
ISE	4320	Human-System Interaction and Usability Engineering	3
ISE	4510	Computer Applications in ISE	3
ISE	4712	Simulation and Stochastic Models	4
MTH	2240	Applied Calculus	4
		Element 2: Mathematics	
Total Hours:			38

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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
		Element 3: Global Traditions, Element 3: Global Traditions History, or Element 4: Arts/Humanities	3
		Element 5: Social Science Multicultural Competence Integrated Writing	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
		Element 3: Global Traditions, Element 3: Global Traditions History, or Element 4: Arts/Humanities	3
Total Hours:			34

Total Credit Hours for Bachelor's Degree: 145

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/sinclair.

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

Transfer to Wright State University

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

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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 Sinclair 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 EGR 1101, ENG 1101, and PHY 1141 at Sinclair.

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

Sinclair College
Academic Advising Center
Building 10-301
444 W. Third St.
937-512-3700

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

