

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

to

Wright State University

**Engineering and Engineering
Technology University Transfer**

**Industrial and Systems Engineering
with Humans and Systems Industrial
Engineering 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 the Wright State website at wright.edu/sinclair.

SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	WRIGHT STATE COURSE #	WRIGHT STATE CREDIT HOUR
CHE	1211	5	General Chemistry I	CHM 1210 + 1210L <small>Element E: Natural Science</small>	3+2
COM	2206 or 2211	3	Interpersonal Communication Effective Public Speaking	COM 2020 or COM 1010 <small>General Elective Credit</small>	3
ENG	1101	3	English Composition I	ENG 1100 <small>Element A: Communication</small>	3
ISE	2240	3	Six Sigma: Green Belt <small>Engineering Transfer Elective</small>	ISE 2XXX (Substitutes for ISE 4850 Requirement)	3
MAT	2270	5	Calculus and Analytic Geometry I	MTH 2300 + Elective <small>Element B: Mathematics + General Elective Credit</small>	4+1
MAT	2280	5	Calculus and Analytic Geometry II	MTH 2310 + Elective <small>Element B: Mathematics + General Elective Credit</small>	4+1
MAT	2320	3	Linear Algebra <small>Engineering Transfer Elective</small>	MTH 2530 <small>Other Course Requirement</small>	3
MAT	2600	3	Applied Statistics <small>Engineering Transfer Elective</small>	ISE 2211	3
MET	1301	4	SolidWorks Basics <small>Engineering Transfer Elective</small>	ME 1040 + General Elective Credit	3+1
PHY	1141	4	College Physics I	PHY 1110 + 1110L	3+1

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				Element E: Natural Science	
PHY	1142	4	College Physics II	PHY 1120 + 1120L	3+1
				Element E: Natural Science	
PHY	2210	3	MATLAB for Scientists and Engineers <small>Engineering Transfer Elective</small>	ME 1020 (Substitutes for CS 1160 Requirement)	3
PSY	1100	3	General Psychology <small>Social & Behavioral Science Ohio Transfer 36 Elective</small>	PSY 1010 <small>Element D: Social and Behavioral Science</small>	3
		3	One Ohio Transfer 36 Arts & Humanities History Course	Element C: Arts and Humanities - History	3
		3	One Ohio Transfer 36 Arts & Humanities Course That Is Not History	Element C: Arts and Humanities	3
		3	One Ohio Transfer 36 Social & Behavioral Science Course	Element D: Social and Behavioral Science	3
		4-5	One Ohio Transfer 36 Natural & Physical Sciences Course <small>Engineering Transfer Elective</small>	Element E: Natural Science (Substitutes for ISE 1110 Requirement)	4-5
TOTAL		61-62			61-62

- Choose one Ohio Transfer 36 Arts & Humanities history 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
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	3
HIS 1112	3	Western Civilization II	HST 1200	3
HIS 2215	3	Survey of African History	RST 2710	3
HIS 2216	3	Survey of Latin American History	RST 2810	3
HIS 2217	3	Survey of East Asian History	RST 2XXX	3
HIS 2218	3	History of Ohio	HST 2XXX	3

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- Choose one Ohio Transfer 36 Arts & Humanities course that is not history 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
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
ART 2239	3	History of Asian Art	ART 2XXX	3
DAN 1155	3	Dance History	DAN 2510 + 2520	3
DAN 1157	3	Dance Appreciation	DAN 1XXX	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	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
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	3

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LIT 2236	3	African-American Literature	ENG 2050 <small>Inclusive Excellence</small>	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>Inclusive Excellence</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	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

- Choose one Ohio Transfer 36 Social & Behavioral Science 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
AFR 1100	3	African-American Studies	AFS 2000	3
ECO 1100	3	Introduction to Economics	EC 2000	3
ECO 2160	3	Principles of Macroeconomics	EC 2050	3
ECO 2180	3	Principles of Microeconomics	EC 2040	3
GEO 1101	3	Global Forces, Local Diversity	GEO 2200	3
GEO 1102	4	Earth's Physical Environment	GEO 2100 + Elective	3+1
GEO 1201	3	World Regional Geography: People, Places & Globalization	GEO 3300	3
HIS 2219	3	Survey of the Middle East	RST 2910	3
PLS 1120	3	American Federal Government	PLS 2120	3

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PLS 1232	3	State & Local Government	PLS 3220	3
PLS 2200	3	Political Life, Systems & Issues	PLS 2000 <small>Inclusive Excellence</small>	3
PLS 2220	3	International Relations	PLS 2220	3
SOC 1101	3	Introduction to Sociology	SOC 2000 <small>Inclusive Excellence</small>	3
SOC 1117	3	Popular Culture	SOC 1XXX	3
SOC 1145	3	Introduction to Cultural Anthropology	ATH 2150 <small>Global Inquiry Inclusive Excellence</small>	3

- Choose one Ohio Transfer 36 Natural Sciences course from:

SINCLAIR COURSE	SINCLAIR CREDIT HOUR	COURSE TITLE	WRIGHT STATE COURSE #	WRIGHT STATE CREDIT HOUR
BIO 1171	5	Principles of Biology I	BIO 1120 + Elective	4+1
BIO 1272	5	Principles of Biology II	BIO 1150 + Elective	4+1
CHE 1221	5	General Chemistry II	CHM 1220 + 1220L	3+2
GLG 1101	4	Physical Geology	EES 2510	4
GLG 1201	4	Historical Geology	EES 2550	4

- 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 MAT 2270, ENG 1101, and PHY 1141 at Sinclair.
- 120 hours minimum are required for a BS degree at Wright State.

FIRST YEAR							
Sinclair College				Wright State University			
SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS	SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER							

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FIRST YEAR							
Sinclair College				Wright State University			
SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS	SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
CHE	1211	General Chemistry I	5	CHM	1210 + 1210L	General Chemistry I + Lab <small>Element E: Natural Science</small>	3+2
ENG	1101	English Composition I	3	ENG	1100	Academic Writing and Reading <small>Element A: Communication</small>	3
MAT	2270	Calculus and Analytic Geometry I	5	MTH	2300	Calculus I + Elective <small>Element B: Mathematics + General Elective Credit</small>	4+1
PSY	1100	General Psychology <small>Social & Behavioral Science Ohio Transfer 36 Elective</small>	3	PSY	1010	Introduction to Psychology <small>Element D: Social and Behavioral Science</small>	3
SPRING SEMESTER							
ISE	2240	Six Sigma: Green Belt <small>Engineering Transfer Elective</small>	3	ISE	2XXX	Non-Equivalent Transfer Course <small>(Substitutes for ISE 4850 Requirement)</small>	3
MAT	2280	Calculus and Analytic Geometry II	5	MTH	2310	Calculus II + Elective <small>Element B: Mathematics + General Elective</small>	4+1
MET	1301	SolidWorks Basics <small>Engineering Transfer Elective</small>	4	ME	1040	Engineering Design and Solid Modeling + General Elective Credit	3+1
PHY	1141	College Physics I	4	PHY	1110 + 1110L	Principles of Physics I Principles of Physics I Lab <small>Element E: Natural Science</small>	3+1
Total Hours:			32	Total Hours:			32

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SECOND YEAR							
Sinclair College				Wright State University			
SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS	SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER							
MAT	2600	Applied Statistics <small>Engineering Transfer Elective</small>	3	ISE	2211	Statistics for Engineers	3
PHY	1142	College Physics II	4	PHY	1120 + 1120L	Principles of Physics II Principles of Physics II Lab <small>Element E: Natural Science</small>	3+1
		Ohio Transfer 36 Arts & Humanities History Course	3			Element C: Arts and Humanities – History	3
		Ohio Transfer 36 Arts & Humanities Course That Is Not History	3			Element C: Arts and Humanities	3
		Ohio Transfer 36 Social & Behavioral Science Course	3			Element D: Social and Behavioral Science	3
SPRING SEMESTER							
COM	2206 or 2211	Interpersonal Communication Elective Public Speaking	3	COM	2020 or 1010	Interpersonal Communication Essentials of Public Address <small>General Elective Credit</small>	3
MAT	2320	Linear Algebra <small>Engineering Transfer Elective</small>	3	MTH	2530	Elementary Linear Algebra <small>Other Course Requirement</small>	3
PHY	2210	MATLAB for Scientists and Engineers <small>Engineering Transfer Elective</small>	3	ME	1020	Engineering Programming with Matlab (Substitutes for CS 1160 Requirement)	3
		Ohio Transfer 36 Natural & Physical Sciences Course <small>Engineering Transfer Elective</small>	4-5			Element E: Natural Science (Substitutes for ISE 1110 Requirement)	4-5
Total Hours:			29-30	Total Hours:			29-30

Total Credit Hours for Associate Degree: 61-62

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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	4400	Engineering Economy	3
ISE	4711	Optimization Methods	3
MTH	2570	Discrete Mathematics for Computing	4
SPRING SEMESTER			
CS ISE	3840 or 3540	Applied Machine Learning Introduction to Machine Learning in Engineering Applications	3
EGR ENG	3350 or 2140	Technical Communications for Engineers and Scientists Research, Technical Writing and Presentation for Scientists and Engineers <small>Element A: Communication</small>	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:			32

FOURTH YEAR

Wright State University

SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER			
ISE	4310	Ergonomics	3
ISE	4810	Production and Service Systems	3
ISE	4910	Industrial and Systems Engineering Design I	3
		Technical Elective	3
SPRING SEMESTER			
ISE	4820	Supply Chain Analysis and Design	3
ISE	4920	Industrial and Systems Engineering Design II	3
MGT MIS	3100 or 3000	Management and Organizational Behavior Fundamentals of Information Systems	3
		Technical Elective	3
		Technical Elective or General Elective Credit	2-3
Total Hours:			26-27

Total Credit Hours for Bachelor's Degree: 120

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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/sinclair.

High school students must be close to graduating 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.

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 MAT 2270, 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

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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**

This agreement will expire two years from date of signature.



07/12/2024

Anthony M. Ponder, Ed.D.
Senior Vice President and Provost
Sinclair College

Date



7/22/2024

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

Date