

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/wrightpath/sinclair.

SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	WRIGHT STATE COURSE #	WRIGHT STATE CREDIT HOUR
COM	2206 or 2211	3	Interpersonal Communication Effective Public Speaking	COM 2020 or COM 1010 <small>General Elective Credit</small>	3
EGR	1101	4	Introductory Math for Engineering Applications <small>Engineering Transfer Elective</small>	EGR 1010 <small>Additional Core Course</small>	4
ENG	1101	3	English Composition I	ENG 1100 <small>Element 1: Communication</small>	3
HIS	1111 or 1112	3	Western Civilization I Western Civilization II <small>Arts & Humanities Ohio Transfer 36 Elective</small>	HST 1100 or HST 1200 <small>Element 3: Global Traditions</small>	3
MAT	2270	5	Calculus and Analytic Geometry I	MTH 2300 + Elective <small>Element 2: Mathematics + General Elective Credit</small>	4+1
MAT	2280	5	Calculus and Analytic Geometry II	MTH 2310 + Elective <small>Additional Core Course + General Elective Credit</small>	4+1
MAT	2310 or 2330	4-5	Differential Equations Differential Equations and Linear Algebra	MTH 2330 + Elective or MTH 2350 + Elective <small>General Elective Credit</small>	3+1 or 4+1
MAT	2600	3	Applied Statistics <small>Engineering Transfer Elective</small>	ISE 2211	3

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MET	1301	4	SolidWorks Basics <small>Engineering Transfer Elective</small>	ME 1040 + General Elective Credit	3+1
PHY	2201	5	General Physics I	PHY 2400 + 2400L <small>Element 6: Natural Science</small>	4+1
PHY	2202	5	General Physics II	PHY 2410 + 2410L <small>Additional Core Course</small>	4+1
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 Sciences Ohio Transfer 36 Elective</small>	PSY 1010 <small>Element 5: Social Science</small>	3
		3	One Ohio Transfer 36 Arts & Humanities Course	Element 4: Arts/Humanities	3
		3	One Ohio Transfer 36 Social & Behavioral Sciences Course	Element 5: Social Science	3
		4-5	One Ohio Transfer 36 Natural Science Course <small>Engineering Transfer Elective</small>	Element 6: Natural Science (Substitutes for ISE 1110 Requirement)	4-5
TOTAL		60-62			60-62

- 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
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

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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 Element 3: Global Traditions	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 Element 3: Global Traditions	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 Element 3: Global Traditions	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 Element 3: Global Traditions	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

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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 and Behavioral Sciences 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 <small>Element 3: Global Traditions</small>	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 <small>Element 3: Global Traditions</small>	3
PLS 1120	3	American Federal Government	PLS 2120	3
PLS 1232	3	State & Local Government	PLS 3220	3
PLS 2200	3	Political Life, Systems & Issues	PLS 2000	3
PLS 2220	3	International Relations	PLS 2220	3
SOC 1101	3	Introduction to Sociology	SOC 2000	3
SOC 1117	3	Popular Culture	SOC 1XXX	3
SOC 1145	3	Introduction to Cultural Anthropology	ATH 2150 <small>Element 3: Global Traditions</small>	3
SOC 1219	3	Global Poverty	SOC 1XXX	3

- Choose one Ohio Transfer 36 Natural Sciences course from:

SINCLAIR COURSE	SINCLAIR CREDIT HOUR	COURSE TITLE	WRIGHT STATE COURSE #	WRIGHT STATE CREDIT HOUR
AST 1111 + AST 1117	3+1	The Solar System + Lab	PHY 1XXX	4

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AST 1112 + AST 1118	3+1	Stars, Galaxies & the Universe + Lab	PHY 1XXX	4
BIO 1111	4	General Biology I	BIO 1XXX	4
BIO 1141	4	Principles of Anatomy & Physiology I	ANT 2100	4
BIO 1171	5	Principles of Biology I	BIO 1120 + Elective	4+1
BIO 1211	4	General Biology II	BIO 1060	4
BIO 1242	4	Principles of Anatomy & Physiology II	ANT 2120	4
BIO 1272	5	Principles of Biology II	BIO 1150 + Elective	4+1
BIO 2205	4	Microbiology	BIO 2200	4
BIO 2225	4	Ecology	BIO 2310	4
BIO 2235	4	Genetics	BIO 2110 + Elective	3+1
CHE 1211	5	General Chemistry I	CHM 1210 + 1210L	3+2
CHE 1221	5	General Chemistry II	CHM 1220 + 1220L	3+2
CHE 1311	4	College Chemistry I	CHM 1XXX	4
CHE 1321	4	College Chemistry II	CHM 1XXX	4
GLG 1101	4	Physical Geology	EES 2510	4
GLG 1201	4	Historical Geology	EES 2550	4
GLG 1301	4	Geologic Field Trips	EES 1XXX	4
GLG 1401	4	Environmental Geology	EES 1XXX	4
PHY 1100	4	Introduction to Physics	PHY 1XXX	4
PHY 1104	4	Sound, Light & Modern Physics	PHY 1050 + 1050L	3+1
PHY 1141	4	College Physics I	PHY 1110 + 1110L	3+1
PHY 1142	4	College Physics II	PHY 1120 + 1120L	3+1

- 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 or MAT 2270, ENG 1101, and PHY 2201 at Sinclair.
- 120 hours minimum are required for a BS degree at Wright State.

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FIRST YEAR							
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SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS	SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER							
EGR	1101	Introductory Math for Engineering <small>Engineering Transfer Elective</small>	4	EGR	1010	Introductory Math for Engineering Applications <small>Additional Core Course</small>	4
ENG	1101	English Composition I	3	ENG	1100	Academic Writing and Reading <small>Element 1: Communication</small>	3
MAT	2270	Calculus and Analytic Geometry I	5	MTH	2300	Calculus I + Elective <small>Element 2: Mathematics + General Elective Credit</small>	4+1
		Natural & Physical Science Ohio Transfer 36 Course <small>Engineering Transfer Elective</small>	4-5			Element 6: Natural Science (Substitutes for ISE 1110 Requirement)	4-5
SPRING SEMESTER							
MAT	2280	Calculus and Analytic Geometry II	5	MTH	2310	Calculus II + Elective <small>Additional Core Course + General Elective Credit</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	2201	General Physics I	5	PHY	2400	General Physics I <small>Element 6: Natural Science</small>	4
PHY	2207	General Physics I Lab	0	PHY	2400L	General Physics I Lab <small>Element 6: Natural Science</small>	1
PSY	1100	General Psychology <small>Social & Behavioral Sciences Ohio Transfer 36 Elective</small>	3	PSY	1010	Introduction to Psychology <small>Element 5: Social Science</small>	3
Total Hours:			33-34	Total Hours:			33-34

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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							
HIS	1111 or 1112	Western Civilization I Western Civilization II <small>Arts & Humanities Ohio Transfer 36 Elective</small>	3	HST	1100 or 1200	Western Civilizations to 1500 The West and the World Since 1500 <small>Element 3: Global Traditions</small>	3
MAT	2600	Applied Statistics <small>Engineering Transfer Elective</small>	3	ISE	2211	Statistics for Engineers	3
PHY	2202	General Physics II	5	PHY	2410	General Physics II <small>Additional Core Course</small>	4
PHY	2208	General Physics II Lab	0	PHY	2410L	General Physics II Lab <small>Additional Core Course</small>	1
		Ohio Transfer 36 Arts & Humanities Course	3			Element 4: Arts/Humanities	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	2310 or 2330	Elementary Differential Equations Differential Equations and Linear Algebra	4-5	MTH	2330 or 2350	Differential Equations + Elective Differential Equations with Matrix Algebra + Elective <small>General Elective Credit</small>	3+1 or 4+1
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 Social & Behavioral Sciences Course	3			Element 5: Social Science	3
Total Hours:			27-28	Total Hours:			27-28

Total Credit Hours for Associate Degree: 60-62

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THIRD YEAR

Wright State University

SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER			
EGR	3350	Technical Communications for Engineers and Scientists <small>Element 1: Communication</small>	3
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
SPRING SEMESTER			
CS	2800	Web Development I	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:			28

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
		Technical Elective or General Elective Credit	2-4
SPRING SEMESTER			
ISE	4820	Supply Chain Analysis and Design	3
ISE	4920	Industrial Systems Design Engineering Design II	3
MGT	3100	Management and Organizational Behavior	3
MIS	3000	Fundamentals of Information Systems	3
PSY	3010	Research Methods in Psychology	4
Total Hours:			30-32

Total Credit Hours for Bachelor's Degree: 120

1. ADMISSIONS AND DEADLINES

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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.

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 or MAT 2270, ENG 1101, and PHY 2201 at Sinclair.

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

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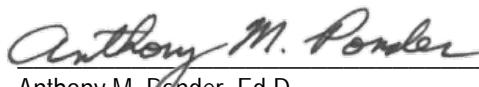
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3. CONTACT INFORMATION

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

**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.

 7/27/2022

Anthony M. Ponder, Ed.D. Date
Provost
Sinclair College

 8/1/2022

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