

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 and Systems Engineering
Technology**

**Engineering Technology with
Industrial and Systems Engineering
Track**

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/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 CAD	ME 1XXX (Substitutes for ME 1040 Requirement)	3
CAM	1109	3	Fundamentals of Tooling and Machining	UNK 1XXX General Elective Credit (Excess)	3
COM	2211	3	Effective Public Speaking	COM 1010 Element A: Communication	3
ECO	2180	3	Principles of Microeconomics	EC 2040 Element D: Social and Behavioral Science	3
ENG	1101	3	English Composition I	ENG 1100 Element A: Communication	3
ISE	1101	3	Introduction to Industrial & Systems Engineering Technology	ISE 1XXX + Elective (Substitutes for First Year Seminar Requirement)	1+2
ISE	1120	3	Problem Solving & Continuous Improvement	ISE 1XXX General Elective Credit (Excess)	3
ISE	1130	3	Lean Operations & Continuous Improvement	UNK 1XXX General Elective Credit	3
ISE	1300	3	Fundamentals of Dimensional Metrology	UNK 1XXX General Elective Credit	3
ISE	2100	3	Lean Leadership, Teamwork, & Management	UNK 2XXX General Elective Credit	3
ISE	2208	3	Engineering Technology Economics & Cost Analysis	ISE 4400	3

WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

Sinclair College

to

Wright State University

**Industrial and Systems Engineering
Technology**

**Engineering Technology with
Industrial and Systems Engineering
Track**

Associate of Applied Science

Bachelor of Science

SUBJECT CODE	COURSE NUMBER	SINCLAIR CREDIT HOUR	COURSE TITLE	WRIGHT STATE COURSE #	WRIGHT STATE CREDIT HOUR
ISE	2210	3	Methods Engineering	ISE 2XXX <small>General Elective Credit</small>	3
ISE	2220	3	Applied Statistics for Process Control & Improvement	ISE 2211	3
ISE	2240	3	Six Sigma: Green Belt <small>ISE Elective</small>	ISE 2XXX (Substitutes for ISE 4850 Requirement)	3
ISE	2250	3	New Product Realization	UNK 2XXX <small>General Elective Credit</small>	3
ISE	2260	3	Workflow & Facility Design	ISE 2XXX <small>General Elective Credit</small>	3
ISE	2700 or 2780	3-4	Industrial & Systems Engineering Technology Internship Industrial & Systems Engineering Technology Capstone	UNK 2XXX <small>General Elective Credit</small>	3-4
MAN	2110	3	Introduction to Project Management	ISE 2XXX (Substitutes for ISE 4830 Requirement)	3
MAT	1470 + 1570 or 1580	3+3 or 5	College Algebra Analytic Geometry & Trigonometry Precalculus	MTH 1280 + 1350 <small>General Elective Credit (Excess)</small>	3+3 or 3+2
PHY	1141	4	College Physics I	PHY 1110 + 1110L <small>Element E: Natural Science</small>	3+1
TOTAL		63-65			63-65

- All students with declared Engineering Technology major are automatically admitted as Pre-Engineering Technology students.
- In order to be admitted fully as an engineering technology 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 1101, MAT 2270, and PHY 1141 at Sinclair.
- 135-138 hours minimum are required for a BS degree at Wright State.

Total Credit Hours for Associate Degree: 63-65

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:

WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

Sinclair College

to

Wright State University

**Industrial and Systems Engineering
Technology**

**Engineering Technology with
Industrial and Systems Engineering
Track**

Associate of Applied Science

Bachelor of Science

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
MAT	2270	5	Calculus and Analytic Geometry I	MTH 2300 + Elective <small>Element B: Mathematics + General Elective Credit</small>	4+1
TOTAL		8			8

- Students must earn a C or higher in MAT 2270 at Sinclair.

BUSINESS ANALYTICS EMPHASIS

WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

Sinclair College

to

Wright State University

**Industrial and Systems Engineering
Technology**

**Engineering Technology with
Industrial and Systems Engineering
Track**

Associate of Applied Science

Bachelor of Science

THIRD YEAR

Wright State University

SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER			
EE	2010	Analog Circuit Theory	3
EE	2010L	Analog Circuit Theory Lab	1
ISE	4150	Advanced Probability and Statistics for Engineering	3
ISE	4711	Optimization Methods	3
PHY	1120	Principles of Physics II <small>Element E: Natural Science</small>	4
PHY	1120L	Principles of Physics II Lab <small>Element E: Natural Science</small>	1
SPRING SEMESTER			
EGR	3350	Technical Communications for Engineers and Scientists <small>Element A: Communication</small>	3
ISE	4510 or 4820	Computer Applications in ISE Supply Chain Analysis and Design	3
ISE	4712	Simulation and Stochastic Models	4
MIS	3000	Fundamentals of Information Systems	3
		Element C: Arts and Humanities - History	3
SUMMER SEMESTER			
		Element C: Arts and Humanities <small>Global Inquiry Integrated Writing</small>	3
Total Hours:			34

WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

Sinclair College

to

Wright State University

**Industrial and Systems Engineering
Technology**

**Engineering Technology with
Industrial and Systems Engineering
Track
Bachelor of Science**

Associate of Applied Science

FOURTH YEAR

Wright State University

SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER			
ISE	4810	Production and Service Systems	3
ISE	4910	Industrial and Systems Engineering Design I	3
MIS	3820	Data Mining for Business	3
MIS	3840	Data Visualization for Business	3
		Element D: Social and Behavioral Science	3
SPRING SEMESTER			
EE	4120	Industrial Controls and Automation	3
EE	4120L	Industrial Controls and Automation Laboratory	1
ISE	4920	Industrial Systems Design Engineering Design II	3
MIS	3810	Introduction to Business Data	3
MIS		Business Analytics Emphasis Electives	6
Total Hours:			31

Total Credit Hours for Bachelor's Degree: 136-138

COMPUTING AND INFORMATION TECHNOLOGY EMPHASIS

WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

Sinclair College

to

Wright State University

**Industrial and Systems Engineering
Technology**

**Engineering Technology with
Industrial and Systems Engineering
Track**

Associate of Applied Science

Bachelor of Science

THIRD YEAR

Wright State University

SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER			
EE	2010	Analog Circuit Theory	3
EE	2010L	Analog Circuit Theory Lab	1
ISE	4150	Advanced Probability and Statistics for Engineering	3
ISE	4711	Optimization Methods	3
PHY	1120	Principles of Physics II <small>Element E: Natural Science</small>	4
PHY	1120L	Principles of Physics II Lab <small>Element E: Natural Science</small>	1
SPRING SEMESTER			
EGR	3350	Technical Communications for Engineers and Scientists <small>Element A: Communication</small>	3
ISE	4510 or 4820	Computer Applications in ISE Supply Chain Analysis and Design	3
ISE	4712	Simulation and Stochastic Models	4
		Element C: Arts and Humanities - History	3
		Element D: Social and Behavioral Science	3
Total Hours:			31

WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

Sinclair College

to

Wright State University

**Industrial and Systems Engineering
Technology**

**Engineering Technology with
Industrial and Systems Engineering
Track**

Associate of Applied Science

Bachelor of Science

FOURTH YEAR

Wright State University

SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
FALL SEMESTER			
CEG	2350	Operating System Concepts and Usage	4
CS	1180	Computer Science I	4
ISE	4810	Production and Service Systems	3
ISE	4910	Industrial and Systems Engineering Design I	3
		Element C: Arts and Humanities <small>Global Inquiry Integrated Writing</small>	3
SPRING SEMESTER			
CEG	2400	Introduction to PC Networking	3
CEG	3400	Introduction to CyberSecurity	3
CS	3700	Introduction to Databases and Modeling	3
EE	4120	Industrial Controls and Automation	3
EE	4120L	Industrial Controls and Automation Laboratory	1
ISE	4920	Industrial Systems Design Engineering Design II	3
Total Hours:			33

Total Credit Hours for Bachelor's Degree: 135-137

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

WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

Sinclair College

to

Wright State University

**Industrial and Systems Engineering
Technology**

**Engineering Technology with
Industrial and Systems Engineering
Track
Bachelor of Science**

Associate of Applied Science

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 engineering technology 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 1101, MAT 2270, and PHY 1141 at Sinclair.

2. TUITION AND SCHOLARSHIPS

Students interested in scholarship opportunities at Wright State should contact:

Transfer Center
138 Student Union
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

WRIGHT PATH PARTNERSHIP ARTICULATION AGREEMENT

Sinclair College

to

Wright State University

**Industrial and Systems Engineering
Technology**

**Engineering Technology with
Industrial and Systems Engineering
Track
Bachelor of Science**

Associate of Applied Science

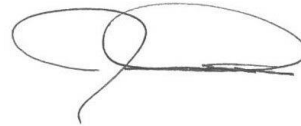
This agreement will expire two years from date of signature.



4/3/2025

Scott Markland, Ph.D.
Senior Vice President and Interim Provost
Sinclair College

Date



4/3/2025

James Denniston, Ph.D.
Acting Provost
Wright State University

Date