



ASSOCIATE OF APPLIED SCIENCE INDUSTRIAL TECHNOLOGY

2024-25 Catalog

Effective Summer 2024

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

4300

Refer to Policy No. 3357:15-13-28.

Business, Engineering, and Information Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AIT101	Basic Machines	2		
MST121	Blueprint Reading	2		
MST134	Hydraulic and Pneumatic Systems [^]	4	MTH022 or MTH023 or Proficiency	
MST221	Mechanical Drive Components	3		
EST230	Electrical Circuits and Devices [^]	4	(MTH025 or Proficiency) or MTH107	
IET270	Dimensional Metrology and Inspection I [^]	3	(MTH025 or Proficiency) or MTH107	
AIT139	Introduction to Robotics	2		
MST125	Basic Pumps	3		
MET225	Manufacturing Processes	3		
TECHNICAL ELECTIVES: 7 credit hours minimum (typically 2 to 3 classes)				
	<i>See Technical Elective list below.² ##</i>	7	<i>Check for prerequisites</i>	
Total		33		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
PHY101	Principles of Physics [^]	4	(MTH024 or MTH025 or Proficiency) or MTH105 or MTH107 and (IDS102 or Proficiency)	
MTH107	Industrial Math [^]	3	(MTH021 or Proficiency) or Pre-Co-MTH007	
ENG124	College Composition [^]	3	Co-ENG024 or Co-ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
COM121 or COM123	Effective Speaking or Small Group Communication [^]	3 or 3	IDS102 or Proficiency	
IET121	Industrial Management Concepts	2		
MET123	Material Science	3		
	<i>Select two (2) courses of Arts & Humanities and/or Social & Behavioral Sciences Electives from the list below.¹</i>	6	<i>Check for prerequisites</i>	
Total		31		
TOTAL CREDIT HOURS		64		

[^]Based upon SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

¹ Arts & Humanities and/or Social & Behavioral Sciences Electives: any course with the following catalog entry: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122, SOC, PSY

^{##}Participation in CDL121 requires a valid Ohio Driver's License. Must be 18 years of age and show proof of legal presence in the United States. Must meet Department of Transportation (DOT) vision and physical requirements and pass the DOT drug screen.

² Technical Electives: See second page

Please reach out to your academic advisor to see what other Career Enhancement and One-Year Certificates you may be eligible for upon completion of this degree.

TECHNICAL ELECTIVES: 7 credit hours minimum from the list below.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ABC110	Electrical Applications I	6		
ABC120	Electrical Applications II	5		
AIT103	Non-Destructive Testing	2		
AIT122	Machine Tools	4		
AIT123	Advanced Machine Tools	4	AIT122	
AIT124	Principles of Rigging	2		
AIT125	Commercial Plumbing	3		
AIT134	Preventive and Predictive Maintenance	3		
AIT137	CAD/CAM	4	AIT122 and IET223	
AIT220	Industrial Robotics	4		
AIT221	Advanced CNC Programming	3	IET223 or ARL121 or ARL122	
CDL121	CDL - Class A – Safe Operation and Control ##	6		
CDL122	CDL - Class A – Advanced Operations and Maintenance	6	CDL121	
DET125	Basic AutoCAD	3		
EET123	Electronic Devices and Circuits	4	EET120 or EST230	
EET227	PLC's and Industrial Controls I	3	EET120 or EST230	
ENV123	OSHA 10-Hour General Industry Safety	1		
ENV124	Transportation Hazardous Mat Training	1		
ENV165	OSHA 10-Hour Construction Safety	1		
ENV221	OSHA 40-Hour HAZWOPER	2		
ENV230	OSHA 8-Hour HAZWOPER Refresher	1		
ENV231	OSHA 30-Hour General Industry	2		
ETD225	Engineering Special Topics	6		
ETD226	Engineering Special Topics	2		
ETD227	Engineering Special Topics	3		
ETD228	Engineering Special Topics	4		
ETD229	Engineering Special Topics	5		
IET223	Computer Numerical Control	4		
MST126	Pipefitting Principles & Applications	3		
MST127	Principles of Welding	6		
MST135	Plumb and Pipe Code Principles	3		
MST136	3G and 4G Welding Cert Exam Preparatory	4	MST127	
MST137	6G Welding Cert Exam Preparatory	4	MST136	
MST138	Preparatory Gas Tungsten Arc Welding	4	MST127	
MST139	Gas Tungsten Arc Welding	3	MST138	
MST227	Metallic Inert Gas Welding	3	MST127	
PIP110	Plumbing/Pipefitting Applications I	6		
PIP120	Plumbing/Pipefitting Applications II	6		
PIP130	Plumbing/Pipefitting Applications III	6		
PIP140	HVAC Systems Operations I	6		
PIP150	HVAC Systems Operations II	6		

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PART-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for part-time associate degree students who plan to finish in eight semesters.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
AIT101	Basic Machines	2	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
ENG124	College Composition^	<u>3</u>	Co-ENG024 or Co-ENG011 or Proficiency
		9	
<u>Second Semester</u>			
MST121	Blueprint Reading	2	
MTH107	Industrial Math^	3	(MTH021 or Proficiency) or Pre-Co-MTH007
IET270	Dimensional Metrology and Inspection I^	<u>3</u>	(MTH025 or Proficiency) or MTH107
		8	
<u>Third Semester</u>			
MST134	Hydraulic and Pneumatic Systems^	4	MTH022 or MTH023 or Proficiency
EST230	Electrical Circuits and Devices^	<u>4</u>	(MTH025 or Proficiency) or MTH107
		8	
<u>Fourth Semester</u>			
IET121	Industrial Management Concepts	2	
<i>(2) Two Arts & Humanities and/or Social & Behavioral Sciences Elective¹</i>		<u>6</u>	<i>Check for prerequisites</i>
		8	
<u>Fifth Semester</u>			
MET123	Material Science	3	
ENG221	Technical Report Writing	3	ENG124
PHY101	Principles of Physics^	<u>4</u>	(MTH024 or MTH025 or Proficiency) or MTH105 or MTH107 and (IDS102 or Proficiency)
		10	
<u>Sixth Semester</u>			
COM121	Effective Speaking	3	
or		or	
COM123	Small Group Communication^	3	IDS102 or Proficiency
AIT139	Introduction to Robotics	2	
MET225	Manufacturing Processes	<u>3</u>	
		8	
<u>Seventh Semester</u>			
MST221	Mechanical Drive Components	3	
MST125	Basic Pumps	<u>3</u>	
		6	
<u>Eighth Semester</u>			
<i>Technical Electives² ##</i>		<u>7</u>	<i>Check for prerequisites</i>
		7	
TOTAL CREDITS		16	
		64	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

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