

ASSOCIATE OF APPLIED SCIENCE INDUSTRIAL TECHNOLOGY

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

2023-24 Catalog

Effective Summer 2023

4300



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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 EL	ECTIVES: 7 credit hours minimum (typically 2	to 3 classe	es)	
	See Technical Elective list below. ² ##	7	Check for prerequisites	
	Total	33		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
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	Effective Speaking	3		
or	or	or	IDS102 on Dungainan	
COM123 IET121	Small Group Communication^ Industrial Management Concepts	3 2	IDS102 or Proficiency	
MET123	Material Science	3		
19111123	Select two (2) courses of Arts & Humanities and/or Social & Behavioral Sciences Electives from the list below. ¹	6	Check for prerequisites	
Total		31		
	TOTAL CREDIT HOURS	64		

[^]Based on SSC placement scores

[^]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 <u>Technical Electives</u>: see next page

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TECHNICAL ELECTIVES: 7 credit hours minimum from the list below.					
Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year	
AIT103	Non-Destructive Testing	2			
AIT122	Machine Tools	4			
AIT123	Advanced Machine Tools	4	AIT122		
IET223	Computer Numerical Control	4			
AIT221	Advanced CNC Programming	3	IET223 or ARL121 or ARL122		
AIT124	Principles of Rigging	2			
AIT125	Commercial Plumbing	3			
AIT220	Industrial Robotics	4			
DET125	Basic AutoCAD	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		
CDL121	CDL - Class A – Safe Operation and Control ##	6			
CDL122	CDL - Class A – Advanced Operations and Maintenance	6	CDL121		
MST126	Pipefitting Principles & Applications	3			
MST127	Principles of Welding	6			
AIT137	CAD/CAM	4	AIT122 and IET223		
AIT134	Preventive and Predictive Maintenance	3			
MST135	Plumb and Pipe Code Principles	3			
EET123	Electronic Devices and Circuits	4	EET120 or EST230		
EET227	PLC's and Industrial Controls I	3	EET120 or EST230		
ETD225	Engineering Special Topics	1			
ETD226	Engineering Special Topics	2			
ETD227	Engineering Special Topics	3			
ETD228	Engineering Special Topics	4			
ETD229	Engineering Special Topics	5			
MST227	Metallic Inert Gas Welding	3	MST127		
ABC110	Electrical Applications I	6			
ABC120	Electrical Applications II	5			
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			

See page 1 for footnote specifics

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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.

First Semester		Credit Hours	Pre- or Co-requisites
SSC101	Student Success Seminar^^	1	Take first semester
AIT101	Basic Machines	2	J
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
ENG124	College Composition^	<u>3</u>	Co-ENG024 or Co-ENG011 or Proficiency
21,012.	conege composition	9	ed Enteres of the Enteres of Transferrey
Second Semester		,	
MST121	Blueprint Reading	2	
	Industrial Math^	3	(MTHO21 or Drofinionary) or Dro Co
MTH107	maustrai Maur	3	(MTH021 or Proficiency) or Pre-Co- MTH007
IET270	Discouries al Materia con al Legendria di	2	
IET270	Dimensional Metrology and Inspection I [^]	<u>3</u>	(MTH025 or Proficiency) or MTH107
		8	
Third Semester			
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	•
Fourth Semester		-	
IET121	Industrial Management Concepts	2	
	and/or Social & Behavioral Sciences Electives ¹	<u>6</u>	Check for prerequisites
mis & manufactures a	major Social & Behavioral Sciences Licenves	8	Check for prerequisites
E'01 0		O	
<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
		10	Proficiency)
G' 41 G 4		10	
Sixth Semester			
COM121	Effective Speaking	3	
or	or	or	
COM123	Small Group Communication^	3	IDS102 or Proficiency
AIT139	Introduction to Robotics	2	
MET225	Manufacturing Processes	<u>3</u>	
		8	
Seventh Semester			
MST221	Mechanical Drive Components	3	
MST125	Basic Pumps	<u>3</u>	
	•	6	
Eighth Semester			
Technical Electives	2 ##	7	Check for prerequisites
		7	V 1 1
	TOTAL CREDITS	64	
^Based on SSC placement	scores		

[^]Based on SSC placement scores

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

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² <u>Technical Electives</u>: see previous page