



ASSOCIATE OF APPLIED SCIENCE
INDUSTRIAL TECHNOLOGY – INDUSTRIAL
MAINTENANCE MAJOR

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. 3357:15-13-28.

2022-23 Catalog
Effective Summer 2022

4351

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 | | |
| AIT139 | Introduction to Robotics | 2 | | |
| AIT122 | Machine Tools | 4 | | |
| AIT220 | Industrial Robotics | 4 | | |
| EST230 | Electrical Circuits and Devices [^] | 4 | (MTH025 or Proficiency) or MTH107 | |
| EET227 | PLCs and Industrial Controls I | 3 | EET120 or EST230 | |
| EET228 | PLCs and Industrial Controls II | 3 | EET227 | |
| MST127 | Principles of Welding | 3 | Co-MST128 | |
| MST128 | Welding Laboratory | 3 | Co-MST127 | |
| MST134 | Hydraulic and Pneumatic Systems [^] | 4 | MTH022 or MTH023 or Proficiency | |
| Total | | 32 | | |
| NON-TECH Course Number | Course Title | Credits | Pre- and Co-Requisites | Completed Sem./Year |
| SSC101 | Student Success Seminar ^{^^} | 1 | <i>Take first semester</i> | |
| MTH107 | Industrial Math [^] | 3 | (MTH021 or Proficiency) or Pre-Co-MTH007 | |
| AIT124 | Principles of Rigging | 2 | | |
| MST121 | Blueprint Reading | 2 | | |
| MST125 | Basic Pumps | 3 | | |
| MST221 | Mechanical Drive Components | 3 | | |
| PHY101 | Principles of Physics [^] | 4 | (MTH024 or MTH025 or Proficiency) or MTH105 or MTH107 and (IDS102 or Proficiency) | |
| ITD122 | Computer Applications for Professionals [^] | 3 | ITD100 or Proficiency | |
| ENG124 | College Composition [^] | 3 | Co-ENG024 or Co-ENG011 or Proficiency | |
| ENG221 | Technical Report Writing | 3 | ENG124 | |
| or | or | or | or | |
| COM123 | Small Group Communications [^] | 3 | IDS102 or Proficiency | |
| PSY124 | Industrial/Organizational Psych | 3 | | |
| Total | | 30 | | |
| TOTAL CREDIT HOURS | | 62 | | |

[^]Based on SSC placement scores

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

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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- or Co-requisites</u> |
|-----------------------------|--|---------------------|---|
| SSC101 | Student Success Seminar^^ | 1 | <i>Take first semester</i> |
| AIT101 | Basic Machines | 2 | |
| MTH107 | Industrial Math^ | 3 | (MTH021 or Proficiency) or Pre-Co-MTH007 |
| MST121 | Blueprint Reading | <u>2</u> | |
| | | 8 | |
| <u>Second Semester</u> | | | |
| EST230 | Electrical Circuits and Devices | 4 | (MTH025 or Proficiency) or MTH107 |
| ENG124 | College Composition^ | 3 | Co-ENG024 or Co-ENG011 or Proficiency |
| ITD122 | Computer Applications for Professionals^ | <u>3</u> | ITD100 or Proficiency |
| | | 10 | |
| <u>Third Semester</u> | | | |
| MST127 | Principles of Welding | 3 | Co-MST128 |
| MST128 | Welding Laboratory | <u>3</u> | Co-MST127 |
| | | 6 | |
| <u>Fourth Semester</u> | | | |
| EET227 | PLCs and Industrial Controls I | 3 | EET120 or EST230 |
| MST134 | Hydraulic and Pneumatic Systems^ | <u>4</u> | MTH022 or MTH023 |
| | | 7 | or Proficiency |
| <u>Fifth Semester</u> | | | |
| AIT 139 | Introduction to Robotics | 2 | |
| PHY101 | Principles of Physics^ | 4 | (MTH024 or MTH025 or Proficiency) or MTH105 or MTH107 and (IDS102 or Proficiency) |
| AIT122 | Machine Tools | <u>4</u> | |
| | | 10 | |
| <u>Sixth Semester</u> | | | |
| AIT124 | Principles of Rigging | 2 | |
| MST125 | Basic Pumps | 3 | |
| EET228 | PLCs and Industrial Controls II | <u>3</u> | EET227 |
| | | 8 | |
| <u>Seventh Semester</u> | | | |
| AIT220 | Industrial Robotics | 4 | |
| MST221 | Mechanical Drive Components | <u>3</u> | |
| | | 7 | |
| <u>Eighth Semester</u> | | | |
| PSY124 | Industrial/Organizational Psych | 3 | |
| ENG221 | Technical Report Writing | 3 | ENG124 |
| or | or | or | or |
| COM123 | Small Group Communication^ | <u>3</u> | IDS102 or Proficiency |
| | | 6 | |
| | TOTAL CREDITS | 62 | |

^Based on SSC placement scores

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