



## **Industrial Technology (2 + 2 Program)**

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The objective of the Industrial Technology program is to produce a graduate with skills and knowledge needed for technical management positions in industry. Courses in Industrial Technology supplement the student's associate degree by additional coursework in subjects not previously studied and/or more advanced courses.

Industrial Technology (IND) is a 2+2 program that provides the second two years of education leading to a Bachelor of Science Degree in Industrial Technology (BSIT). Prior to entering the program, students must have completed an Associate of Science, Associate of Applied Science or Associate of Technical Studies degree in an Engineering Technology field from a regionally accredited university, college, community college, or technical college. Industrial Technology is a comprehensive major requiring at least thirty-three (33) credit hours of 30000/40000 level coursework, a minimum of twenty-four (24) hours of Industrial Technology technical electives, and a minimum of 124 credit hours total.

BSIT graduates have found employment in industries as Manufacturing Engineers, Quality Engineering Technicians, Production Engineering Technicians, and Engineering Managers.

The student will be preparing to take the Certified Manufacturing Technologist Examination given by the Society of Manufacturing Engineers.

### *Degree Offered*

**Bachelor of Science – Industrial Technology**

### *Learning Outcomes*

The successful student will:

- have a working knowledge of business practices in industry.
- convey good people and communication skills.
- demonstrate knowledge of common practices of employer and employee relationships.

### *Program Admission Requirements*

- Must have an approved Associate degree that can count towards the first two years of the BSIT.
- 2.0 accumulative GPA in Associates Degree

# Industrial Technology (2 + 2 Program)

## Curriculum

### Fall

ACC 10503 General Accounting Fundamentals  
BM 20403 Principles of Management  
IND 37102 OSHA  
7-9 hours of IND Technical Electives

### Fall

ECO 11403 Intro to Microeconomics  
PHY 17505 General Physics w/Algebra I  
3 hour 300/400 BM or MKT course  
4-7 hours of IND Technical Electives

**NOTE:** A minimum of twenty-four (24) hours of IND Technical Electives are required. Courses used for securing the associate's degree cannot be used again for the B.S.I.T.

### Third Year

### Spring

IND 35202 Preventive Maintenance Planning & Scheduling  
BIO 11404 Biology or  
CHM 10404 Principles of Chemistry or  
NSC 22304 Environmental Science  
7-11 hours of IND Technical Electives

### Fourth Year

### Spring

IND 45403 Certification Seminar  
PHY 32303 Statics and Strengths  
3 hour 300/400 BM or MKT course  
6-8 hours of IND Technical Electives

### Industrial Technology – Technical Electives

IND 30503 Basic Electricity/Electronics  
IND 30303 Microcomputer Hardware  
IND 31102 Blueprint Reading for Industry  
IND 31103 Programmable Controllers I  
IND 31603 Schematic Diagram Reading  
IND 31303 Introduction to Networking  
IND 31503 Basic Welding  
IND 32403 Manufacturing Processes  
IND 32203 Basic Pipe Welding  
IND 32303 Local Area Networks  
IND 33103 Advanced Pipe Welding  
IND 34103 Materials and Metallurgy  
IND 35103 Power Transmission Devices  
IND 34103 Materials and Metallurgy  
IND 34303 TCP/IP  
IND 35003 Industrial Controls  
IND 35202 Preventive Maintenance

IND 36102 Hydraulics & Pneumatics  
IND 36103 Weld Testing & Inspection  
IND 35503 Mechanical Skills  
IND 37102 OSHA  
IND 38202 Machine Repair/Maintenance  
IND 40103 Advanced Welding  
IND 41203 Programmable Controllers II  
IND 41303 Computer Network Security  
IND 43303 Wireless Computer Networks  
IND 44202 Electrical Troubleshooting  
IND 44303 Network Design  
IND 45403 Certification Seminar  
IND 46102 Adv. Hydraulics & Pneumatics  
IND 47003 Robotics  
IND 48801-05 Selected Topics in IND  
IND 49001-04 Cooperative Education Experience

### Contact:

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