

MARKETABLE SKILLS BACHELOR OF SCIENCE: INDUSTRIAL TECHNOLOGY

SKILL SET	INDUSTRIAL TECHNOLOGY DEVELOPMENT- SPECIFIC APPLICATION	GENERAL EMPLOYMENT APPLICATION	HOW DELIVERED
Microsoft Word	Write fluently using correct grammar, spelling and punctuation in reports, presentations, thank you and offer letters, resume's, etc.	Technical writing and communication.	TECH 1320 – Industrial Mtls. TECH 2311 Electrical and Fluid Systems TECH 3324 – Plant Layout & Facilities Planning TECH 3331 – Project Mgmt. TECH 3355 - Supply Chain Management TECH 3344 – Industrial Safety TECH 4372- Capstone Experience
Microsoft Excel	Develop analysis from data by quantitative and qualitative data from multiple sources.	Develop skills to analyze data and notice trends to successfully provide solutions.	ACCT 3300- ACCT& Fina for Small Bus& Entp TECH 3310- Total Quality Management
Microsoft PowerPoint	Create persuasive and informative presentations.	Public Speaking, effective communication and presentation.	TECH 3324 – Plant Layout & Facilities Planning TECH 3344 – Industrial Safety
Machining Skills	Manufacture parts out of metal using milling machines, engine lathes, drill presses, spot welders, etc.	Develop skills critical to industry in order to effectively supervise and improve production.	TECH 4323 – Lean Production
Lean Philosophy	Understand and implement lean philosophies to eliminate waste.	Develop effective lean practices to improve production and save resources.	TECH 4323 – Lean Production
Safety Training	Earn OSHA 30 certification.	Develop and improve safe working habits in industry.	TECH 3344 – Industrial Safety
Robotics and Automation Skills	Learn to program robots and integrate automation	Learn how to write CNC programs, draw solid models, create 3D printing files, run and write robotics programs.	TECH 4317 – Computer Integrated Manufacturing

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Critical Thinking	Identify problems or issues in technology and create types of charts, figures, tables to describe a solution. Utilizing knowledge and research processes to complete projects and research papers.	Develop skills essential to organizations to locate and research to effectively solve issues.	MANA 1300- Intro to Business TECH 3331 – Project Mgmt. TECH 4372- Capstone Experience
Hydraulics and Pneumatics	Knowledge of fluid power and its use in industry.	Demonstrate knowledge of hydraulic and pneumatic powered systems and how to maintain and use it for automated systems in industry.	TECH 2311 – Electrical and Fluid Systems
Programmable Logic Controllers Skills	Understanding of PLC's (programmable logic controllers).	Demonstrate knowledge of PLC's and how to program them to run machines in industry.	TECH 2319- Programmable Logic Controllers
Manufacturing Process Knowledge	Understanding of manufacturing processes and industrial equipment skills	Demonstrate knowledge of manufacturing equipment and processes.	TECH 3311 – Manufacturing Processes
Industrial Plastics	Understanding of polymer properties, use, and processing equipment.	Demonstrate how to properly use industrial plastics processing equipment and the selection of polymers and processes to make parts.	TECH 3333 - Polymer Processing
Supply Chain Management	Understand the various types of supply chains available to move goods and materials.	Understand supply chains and their importance to support industry and business.	TECH 3355 – Supply Chain Management
Quality	Understanding quality management principles, statistical process control, problem-solving by graphs, sampling and six-sigma quality.	Develop skills to diagnose trends in various graphs and data to provide solutions for an organizational problem.	TECH 3310- Total Quality Management