INDUSTRIAL TECHNOLOGY

ADVANCED MANUFACTURING TECHNOLOGY (AMT) – ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE PLAN

PROGRAM INFORMATION

The Associate of Applied Science (AAS) degree in Advanced Manufacturing Technology (AMT) prepares students for high-demand careers in advanced manufacturing, industrial maintenance, automation, and production operations. Through a combination of classroom instruction, hands-on laboratory experiences, and employer engagement, students develop technical competencies in mechanical systems, electrical systems, fluid power, automation, robotics, precision measurement, troubleshooting, and problem-solving.

The program incorporates the nationally recognized Federation for Advanced Manufacturing Education (FAME) model, which emphasizes technical excellence, professional behaviors, and real-world industry experience. Students learn to operate, maintain, and improve advanced manufacturing systems while developing critical workplace skills such as teamwork, communication, reliability, and leadership. Graduates are prepared for careers as industrial maintenance technicians, manufacturing technicians, automation technicians, and other skilled technical positions in modern manufacturing environments. The degree also provides a pathway for students wishing to pursue additional industry certifications or a Bachelor of Applied Arts and Sciences (BAAS) degree.

ADDITIONAL INFORMATION

The Advanced Manufacturing Technology (AMT) program is offered at the Corsicana campus and is delivered in partnership with regional manufacturing employers. FAME students participate in a work-and-learn model that combines college coursework with paid industry experience, allowing them to apply classroom knowledge in real manufacturing environments while earning income and building professional networks.

The program is designed to meet the workforce needs of advanced manufacturing employers in Navarro College's service area and surrounding region. Students gain exposure to industry-standard equipment, manufacturing processes, continuous improvement principles, industry-based certifications, and workplace leadership practices that prepare them for long-term career success.

For additional information, contact the Dean of Workforce and Career Pathways at 903-875-7667.

FRESHMAN YEAR - FALL

Course Section	Course Title	Credit Hours
ELPT 1311	Basic Electrical Theory	3
ELMT 1305	Basic Fluid Power	3
INMT 1305	Introduction to IMT	3
MATH 1332	Contemporary Mathematics (Quantitative Reasoning)	3
Fall Total Credit Hours		12

FRESHMAN YEAR - SPRING

Course Section	Course Title	Credit Hours
MCHN 1338	Basic Machine Shop I	3
INTC 1357	AC/DC Motor Control	3
INMT 2303	Pumps, Compressors, and Mechanical Drives	3
ENGL 1301	Composition I	3
Spring Total Credit Hours		12

FRESHMAN YEAR - SUMMER

Course Section	Course Title	Credit Hours
RBTC 1305	Robotic Fundamentals	3
ELMT 1301	Programmable Logic Controllers	3
RBTC 1347	Electromechanical Devices	3

X3XX	Approved Social / Behavioral Science	3
Summer Total Credit Hours		12

SOPHOMORE YEAR - FALL

Course Section	Course Title	Credit Hours
INTC 2330	Instrumentation Systems Troubleshooting	3
RBTC 2339	Robot Programming and Diagnostics	3
INTC 2333	Instrumentation Systems Installation	3
SPCH 1321	Business and Professional Communication	3
Fall Total Credit Hours		12

SOPHOMORE YEAR - SPRING

Course Section	Course Title	Credit Hours
INMT 2345	Industrial Troubleshooting	3
CETT 1329	Solid State Devices	3
WLDG 1307	Introduction to Welding Using Multiple Processes	3
X3XX	Approved Language / Philosophy / Creative Arts	3
Spring Total Credit Hours		12
Program Total Credit Hours		60

Navarro College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate and baccalaureate degrees. Navarro College also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Navarro College may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website.