

INTEGRATED TECHNICIAN (AAT)(PLAN CODE: MATITAPT)

Academic Plans, known as programs, include an overview description and a summary of program requirements. You can search the online catalog via the Academic Plan links on the right for a desired program or a specific course information.

Code	Title	Credits/ Units
Communication Skills		
PTWR 135	Introduction to Applied Technical Writing	5
<i>Computational Skills</i>		
MATH 103	College Trigonometry	5
<i>Human Relations</i>		
AM 101	Advanced Manufacturing Career Exploration	5
Major Area Requirements		
AM 102	OSHA 10 Safety	1
AM 105	Welding, Cutting & Fabrication Processes	6
AM 108	Blueprint and Schematic Reading	5
AM 110	Manual Manufacturing I	3
MATH 111	College Algebra	5
or MATH 110	College Algebra With Support	
HLTH 120	Adult CPR and First Aid	1
AM 120	Manual Manufacturing II	3
AM 130	Intro to SolidWorks	5
AM 150	Intro to Programming & Problem Solving	5
AM 200	Applied Material Science	5
AM 208	Applied Metrology	3
AM 210	Additive Manufacturing	5
AM 215	Robotics I	4
AM 216	Robotics II	4
AM 217	Robotics III	4
AM 220	Subtractive Manufacturing I	6
AM 230	Subtractive Manufacturing II	6
AM 235	Computer Aided Machining (CAM)	3
AM 250	Systems Integration	3
AM 260	Capstone Lab	6
Total Credits/Units		98

Program Outcomes

Program outcomes are overarching skills that are emphasized and reinforced throughout several courses in a specific program; they are measurable statements that define what students should know or be able to do by the end of a certificate or degree at Clark College. After successful completion of this program, students will be able to:

- Function effectively as a member of a professional team in an advanced manufacturing environment.
- Apply Standard Operating Procedures (SOP) to safely operate manufacturing tools and equipment.
- Apply Computer Aided Drafting (CAD), Computer Aided Machining (CAM), Geometric Dimensioning Tolerance (GDT), mathematic

principles, precision measurement, and Quality Assurance (QA) methods when producing manufacturing assemblies.

- Apply material identification and material properties to advanced manufacturing processes.
- Use specific software programs for Robotics, Additive Manufacturing (AM) and Subtractive Manufacturing (SM) processes.