

# ASSOCIATE OF APPLIED SCIENCE (A.A.S.)

## GATEWAY COMMUNITY COLLEGE UNOFFICIAL ADVISEMENT CHECK SHEET

**Description:** The Associate in Applied Science (AAS) in Industrial Design Technology program prepares students for careers in the field of Industrial Design. This expertise will allow employment in a variety of hi-tech product development and medical device, consumer product, aerospace, and automotive manufacturing companies. The program includes courses designed to provide students with a working knowledge in the field of product design, product development and rapid part production. Competency and technical expertise will be learned on industry specific three-dimensional (3D) Solid Design software and 3D printers. The core specialty of the program is hands-on experience with Computer Aided Design (CAD), and 3D printing. A Certificate of Completion (CCL) in Industrial Design Technology: Design Specialist is also available.

NAME	SID	LAST REVISED DATE	MAJOR CODE: <b>3204</b>	
			<b>INDUSTRIAL DESIGN TECHNOLOGY</b>	
<b>+ Program Prerequisite: None</b>				
<b>I. GENERAL EDUCATION CORE REQUIREMENTS (22 - 28 CREDITS)</b>				
Must earn "C" or higher in all courses within the program		CREDITS	GRADE	COMMENTS
ENG101 or 107		3		
ENG102 or ENG108 or ENG111		3		
COM 100 or COM 110 or COM230 or COM 225		3		
CRE101 or Test Exempt		0-3		
MAT 141 or MAT 142, or MAT 145 or MAT 146 or Equivalent or Higher level mathematics course in the Mathematical Applications		3-5		
Humanities/Fine Arts*		3		
Social/Behavior Science*		3		
Natural Sciences*		4		
<b>II. REQUIRED COURSES (32 CREDITS)</b>				
<b>FALL- IDT – Design Specialist</b>				
MPT101 Technical Documentation		3		
MPT110 Inspection Techniques		3		
MPT111 Geometric Dimensioning and Tolerance		3		
MPT113 Coordinate Measuring Machine I		3		
<b>SPRING</b>				
+MPT151 Solid Design I: Solidworks		3		
+MPT152 Solid Design: Certified SolidWorks Associate/Certified SolidWorks Professional Test Preparation OR MPT298AA Special Projects ( <i>permission from IDT Program Director</i> )		1		
+MPT250 Solid Design II: Advanced Part Modeling: SolidWorks		3		
+MPT251 Solid Design: Documentation/GD&T: SolidWorks		3		
+MPT255 Solid Design 3D Printing		4		
<b>FALL</b>				
+MPT 252 Solid Design: Simulation: SolidWorks		3		
+MPT 214 3D Scanning and Reverse Engineering: Geomagic		3		
<b>RESTRICTIVE ELECTIVES – 6 CREDITS REQUIRED</b>				
+MPT213 Coordinate Measuring Machines II		3		
+MPT218 Advanced Quality Process Methods		3		
+MPT253 Solid Design: Surface Modeling: SolidWorks		3		
+MPT254 Solid Design: Sheet Metal: SolidWorks		3		
+MPT298AC Special Projects		3		

The official curriculum outline for this program is located on the Maricopa Community Colleges Curriculum & Transfer Articulation site at:

TBD

<http://aztransmac2.asu.edu/cgi-bin/WebObjects/MCCCD.woa/wa/freeForm13?id=154874>