

**Program Completion Guide**  
**CIP Code - 15.0613**  
**Engineering Design - DDT**  
**Associate in Applied Science (AAS Degree)**  
**2023-2024**

**Area I: Written Composition (6 Semester Hours Total)**

Courses	Courses Taken	Hours Earned
ENG101		
ENG102		

**Area II: Humanities and Fine Arts (3 Semester Hours Total)**

Courses	Courses Taken	Hours Earned
ART100, ENG251, ENG252, ENG261, ENG262, ENG271, ENG272, MUS101, PHL206, REL100, REL151, REL152, SPH107		

**Area III: Natural Science and Mathematics (10 Semester Hours Total)**

**Note:** CIS146, MTH100 or higher and a 4 credit hour science course are required.

Courses	Courses Taken	Hours Earned
CIS146		
MTH100 or Higher		
MTH110, MTH112, MTH113, MTH115, MTH120, MTH125, MTH126, MTH227		
BIO103, BIO104, CHM111, CHM112, PHS111, PHS112, PHY201, PHY202		

**Area IV: History, Social, and Behavioral Sciences (3 Semester Hours Total)**

Courses	Courses Taken	Hours Earned
ECO231, ECO232, HIS121, HIS122, HIS201, HIS202, PSY200, PSY210		

**Area V: Pre-Professional, Major, and Elective Courses (41 Semester Hours Total)**

Courses	Credit Hours	Courses Taken	Hours Earned
<b>Major Core Concentration (27 Semester Hours)</b>			
ADM101 - Precision Measurement	3		
ADM102 - Computer Aided Design	3		
ADM106 - Quality Control Concepts	3		
ADM107 - CAD Concepts	3		
ADM108 - Intro to 3D Modeling	3		
ADM110 - Blueprint Reading	3		
ADM128 - Plastic Metal Processes	3		
ADM155 - Manufacturing Projects	3		
ADM215 - Geometric Dimensioning & Tolerancing	3		

<b>Elective Courses (12 Semester Hours)</b>			
ADM103 – Introduction to Computer Integrated Manufacturing (CIM) Materials and Processes	<b>3</b>		
ADM111 – Manufacturing Safety Practices	<b>3</b>		
ADM114 – Design Innovation	<b>3</b>		
ADM158 – Rheology	<b>3</b>		
ADM159 – Printer Safety and Maintenance	<b>3</b>		
ADM161 – Specialized Software Techniques	<b>3</b>		
ADM208 – Intermediate 3D Modeling	<b>3</b>		
ADM216 – 3D Graphics and Animation	<b>3</b>		
ADM260 – Portfolio	<b>3</b>		
ADM261 – Reverse Engineering	<b>3</b>		
ADM268 – Additive Manufacturing Processes – Regolith/Concrete	<b>3</b>		
ADM269 – Slump and Viscosity	<b>3</b>		
ADM283 – CO-OP	<b>3</b>		
DDT239 – Independent Studies	<b>3</b>		
GIS101 – Introduction to GIS	<b>2</b>		
GIS201 – Introduction to Geographic Information Systems	<b>3</b>		
GIS202 – Cartographic Design for GIS	<b>3</b>		
GIS221 – Advanced Spatial Analysis	<b>4</b>		
WKO110 – NCCER Core	<b>3</b>		
<b>Institutional Requirements (2 Hours)</b>			
ORI101 Take in the first semester unless student has 12 transfer credit hours			
BSS220 Take in last semester of program			

*In Area I through Area IV, transfer credits are accepted in accordance to ACCS policy.*

For additional courses see [http://stars.troy.edu/approved\\_courses.html](http://stars.troy.edu/approved_courses.html)

### Total Semester Hours Required for Degree: 63

<b>Student Name:</b>	<b>Signature of Advisor:</b>
<b>Student Number:</b>	<b>Date of Advising:</b>
<b>Total Credit Hours Earned:</b>	<b>Date Audited by Admissions:</b>

Certificates and Short Term Certificates are available:

- **Engineering Design – DDT-CER** 38 hrs.
- **Advanced Certificate – DDT-STC1** 9 hrs.
- **Mechanical Design Fundamentals – DDT-STC2** 9 hrs.
- **Mechanical Design Quality – DDT-STC3** 12 hrs.