

# Product Development - Digital Sculptor Program

*“Every aesthetic component of a car is designed on computers and modeled in clay prior to the creation of a prototype. We look for people who can support the design process from art to part.”*

- William Mattana, Senior Manager of Creative Sculpting for General Motors

## What is Digital Sculpting?

Hand sculpted clay models once played a major role in the creative design process, providing for the initial prototypes of everything from new cars to Hollywood’s image of a galaxy far, far away. When Computer Aided Design (CAD) was introduced, however, clay models were replaced by digital renderings. Now, however, industry demand is for those who can combine both CAD and clay modeling skills, again providing designers, engineers and, even, film directors with a preferred three-dimensional model that they can walk around, touch and fine tune.

## Macomb’s Product Development - Digital Sculptor Program

Macomb’s Product Development - Digital Sculptor Program, the only one offered by a community college in Michigan, prepares you for work in industrial design studios, focusing on the development of both the necessary technical and creative skills.

You will learn about digital manufacturing, computer numerical control applications, conceptual drawing, rendering techniques, clay modeling, and the drafting, modeling and assembly features of industry-specific software.

## Digital Sculptor Courses at Macomb

In the Digital Sculptor Program at Macomb, you will take a variety of courses specific to your selected major, including:

- Design Principles
- Theory of Sheet Metal Fabrication
- Illustration Fundamentals
- CNC Essentials
- NX Fundamentals
- Catia Essentials
- Fundamentals of Clay Modeling
- Rendering
- Alias Principles
- Product Development Process
- Rapid Prototyping & Reverse Engineering
- Advanced Clay Modeling
- Advanced Alias
- Plastic Design & Manufacturing

## Career Opportunities with an Associate of Applied Science Degree in Product Development - Digital Sculptor

**With an Associate of Applied Science Degree or Certificate in Digital Sculptor, you will be qualified for positions that include digital sculptor, industrial designer and clay modeler.**

## Transfer Pathways to a Bachelor’s Degree

The credits earned in Macomb’s Digital Sculptor Program will transfer to many colleges and universities in Michigan.

If you intend to transfer and pursue a Bachelor's Degree, speak with a Macomb counselor or academic advisor as soon as possible after you have applied to Macomb to plan the best pathway.

**How do I find out more about Macomb's Product Development - Digital Sculptor Program?**

**For more information, contact the Digital Sculptor program advisor: Professor Jim Carlson, 586.445.7473.**