



ACADEMY *of* ART UNIVERSITY®

**School of  
Industrial Design:  
Automotive Restoration**





Academy of Art University has helped to open students' eyes and has given them the vision necessary to see and create art, and make a life of art. What we do here is enable students to create, and that's what we've been doing since 1929.

There is an industry demand for entry level Automotive Restorers, and most programs lack the historical restoration and preservation elements necessary to restore vintage vehicles. Our program will not only focus on technology, but it will also provide instruction for building the unique skillsets, historical knowledge, and research skills required for replicating historically authentic classic cars.

Vintage vehicle restoration is unique in that it requires parts to be repaired or reproduced because many cannot be purchased or refurbished from a factory. For this reason, our new Automotive Restoration program will train for hands-on skills and machining technology, while also covering the critical component of history and research processes for repairing parts or creating historically accurate components for authenticity. Car collectors place a high value on historical preservation because original parts have more historical significance and also increase the value of a car. Our students will receive training on how to evaluate a component and determine if it must be fabricated or if it can be repaired.

The School of Industrial Design has the facilities and a long tradition of excellence in production, analysis, and research, which will be leveraged to support this new program. In addition to these existing facilities, Automotive Restoration students will have a unique opportunity to closely examine and work on many aesthetically remarkable examples housed at Academy of Art University's Automobile Museum where a significant number of cars have already been fully restored to the highest standard.

"Creative students are better problem-solvers. That is the trait that the world of culture and commerce begs for."

We hope you'll join us on this new journey,

A white, cursive handwritten signature of Elisa Stephens.

Dr. Elisa Stephens  
President, Academy of Art University





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**“The School of Industrial Design has the facilities and a long tradition of excellence in production, analysis, and research.”**

Dr. Elisa Stephens, President







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# School of Industrial Design

## AUTOMOTIVE RESTORATION

The vintage Automotive Restoration program prepares students for a career in a preservation field by focusing on techniques in woodwork and machine work, sheet metal work, upholstery work, systems knowledge, and process of disassembly and assembly, coupled with historical studies and research skills needed to restore vintage vehicles. Automotive Design students at Academy of Art University benefit from the extremely specialized program, as emphasis is placed on learning from classic cars that have been fully restored to the highest standard at the Academy's Automobile Museum.

Students of the Automotive Restoration program will be able to identify all major automotive components and systems, as well as their functions. They will conduct focused research to acquire relevant information for the restoration of vintage automobiles, and they will produce detailed documentation on conditions of the vehicle and components and their restoration procedures through training on disassembly.

Students will gain hands-on skills in making accurate technical drawings; duplicating automotive woodwork; repairing, replicating, and sculpting auto body panels to factory specifications; painting auto body panels using industry standard equipment; and reassembling restored components back to a superb and visually correct functioning automobile, ready for shows.

Students will exit the program and enter the industry prepared and ready to work with all of these skills, and most importantly, students will have unique collaborative experience in working within a team that performed restoration of a vintage automobile.





**Tom Matano**  
*Executive Director of Industrial Design*

Tom Matano, Executive Director of the School of Industrial Design at Academy of Art University, is an honorary judge at the 2015 Hillsborough Concourse. Mr. Matano is an industry veteran who held design positions at Mazda, General Motors, and BMW for nearly three decades prior to joining the Academy. Mr. Matano has almost 30 years of experience in the automotive industry, holding design positions at General Motors in Detroit, Michigan, GM Holden's Ltd. in Melbourne, Australia, and BMW in Munich, Germany. In 1983, he joined Mazda's North American studio as a Chief Designer. From there, he went on to become Executive Vice President of Western Operations for Mazda R&D North America, Inc., and Executive Designer & Director of Mazda North American Operations.

From 1999 to 2002, Matano returned to Mazda at its headquarters in Japan as an Executive Designer in the Global Advance Studio, overseeing efforts for Japan, Europe, and North America; and eventually he was named General Manager of Mazda Design in charge of all Chief Designers. His accomplishments at Mazda include the 1993 RX-7 and Miata, in addition to many other projects produced by the design teams he built and managed. Since 2002, Matano has been committed to becoming an educator, using his diverse knowledge and experience to enhance the Industrial Design program at Academy of Art University in San Francisco, CA, now ranked No. 4 in the Red Dot World Ranking of Industrial Design schools.



**Lloyd Buck**  
*Associate Director of Automotive Restoration*

Lloyd Buck is an award-winning classic car restoration expert with more than 40 years of industry experience. He launched his auto restoration career while in high school as a painter at an auto body shop that specialized in the repair and restoration of Datsun Z cars. In 1985, he joined Auto Europa, and a year later, he began maintaining and restoring vehicles for the Keller Collection at the Pyramids, one of the most significant auto collections in the world. After operating his own restoration business, he became the Keller Collection's manager until 2012, when he joined Academy of Art University as a mechanic for its celebrated Automobile Museum collection.

## Automotive Restoration

### AA Degree Unit Requirements

Core	24
Major	18
Liberal Arts	18
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Total	60

### CORE | 24 UNITS

AUT 120	Vintage Vehicle Woodworking Restoration
AUT 140	Machining Technology & Visual Documentation
AUT 159	Vintage Vehicle Disassembly Processes
AUT 160	Vintage Vehicle Electrical Systems
AUT 170	Automotive Sheet Metal Restoration
AUT 177	Vintage Vehicle Body Restoration
AUT 207	Vintage Vehicle Paint Restoration
AUT 280	Vintage Vehicle Restoration Assembly

### MAJOR BY ADVISEMENT | 18 UNITS

AUT 230	Vintage Vehicle Upholstery Restoration
AUT 250	Vintage Vehicle Component Restoration
AUT 290	Vintage Vehicle Detailing
IND 123	Computer Drafting
+2 Major courses	

### LIBERAL ARTS | 18 UNITS

#### 1 Written Communications: Composition Course

SELECT ONE:

LA 107	Writing for the Multilingual Artist
LA 108	Composition for the Artist

#### 1 Written Communications: Critical Thinking Course

SELECT ONE:

LA 202	English Composition: Creative Persuasion & Argument
LA 280	Perspective Journalism

#### 1 Automotive Design History Course

LA 129	History of Automotive Design
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#### 1 Quantitative Mechanics Course

LA 146	Anatomy of Automobiles
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#### 1 Employment Communications & Practices Course

LA 291	Designing Careers
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## Semester Breakdown

### First Year - 30.0 Units

IND 123	Computer Drafting
AUT 120	Vintage Vehicle Woodworking Restoration
AUT 170	Automotive Sheet Metal Restoration
LA 146	Anatomy of Automobiles
LA 129	History of Automotive Design
Requirement: Automotive Design History	
AUT 140	Machining Technology & Visual Documentation
AUT 159	Vintage Vehicle Disassembly Processes
AUT 177	Vintage Vehicle Body Restoration

### Recommended Summer Courses

LA 108	Composition for the Artist
Requirement: Written Communications: Composition	
LA 239	Materials and Processes

### Second Year - 30.0 Units

AUT 160	Vintage Vehicle Electrical Systems
AUT 207	Vintage Vehicle Paint Restoration
AUT 230	Vintage Vehicle Upholstery Restoration
LA 291	Designing Careers
Requirement: Employment Communications & Practices	
AUT 250	Vintage Vehicle Component Restoration
AUT 290	Vintage Vehicle Detailing
AUT 280	Vintage Vehicle Restoration Assembly
● FINAL REVIEW	
AUT ---	Major by Advisement

### Recommended Summer Courses

LA 202	English Composition: Creative Persuasion & Argument
or LA 280	Perspective Journalism
Requirement: Written Communications: Critical Thinking	
AUT ---	Major by Advisement

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AA Degree | 60 units

\* For a complete listing of all AUT classes available, please visit the online Academy catalog.

\* Requirements subject to change

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## AA Automotive Restoration Course Descriptions

### **AUT 140 Machining Technology & Visual Documentation**

Precision measurement, visual documentation, and operating metal lathes and milling machines are all important skills. You'll use these skills to reproduce a component for a car, focusing on common industrial metals used in the machining process, and machine tool maintenance.

### **AUT 159 Vintage Vehicle Disassembly Processes**

There's nothing worse than having car parts left over. To get it back together properly, you'll do practical historical research, outline a restoration plan, disassemble, visual inspection, and written and photographic documentation to restore vintage automobiles.

### **AUT 170 Automotive Sheet Metal Restoration**

Cut, bend, form, and weld auto body panels. You'll learn to form sheet metal and use rivets and thread fasteners to create and assemble new sheet metal components for vintage cars.

### **AUT 177 Vintage Vehicle Body Restoration**

Learn metal body repairs and panel finishing. You'll evaluate body components, outline appropriate repair procedures, strip existing finishes, and repair them.

### **AUT 207 Vintage Vehicle Paint Restoration**

Pull off a perfect paint job. You'll gain vintage vehicle paint restoration skills, focusing on panel preparation, paint systems, equipment care, application, documentation, and evaluation of surface faults. Plus, learn to correct painted surface faults.

### **AUT 217 Vintage Vehicle Aluminum & Bronze Casting**

You'll learn to cast, restore, and polish hard trim moldings and hard trim components.

### **AUT 230 Vintage Vehicle Upholstery Restoration**

Upholstery and interior restoration professionals are always in demand. You'll disassemble and assemble seats, interior components, and gain skills in stitch patterns, carpeting, welting, binding, padding, material specifications, and sewing machines.

### **AUT 250 Vintage Vehicle Component Restoration**

Restoration is a process. You'll learn to create technical drawings, diagnose component condition, disassemble, repair, rebuild, refinish, and reassemble vintage car components.

### **AUT 290 Vintage Vehicle Detailing**

Become a master detailer. Your goal is to achieve visually correct finishes for presentation and car shows. You'll learn detailing products, equipment, techniques, and procedures for final conditioning of interior and exterior components and surfaces.

### **AUT 299 Apprenticeship**

If you are a qualified second-year student, apply for an apprenticeship to work in a restoration-related field.

### **IND 123 Computer Drafting**

Learn drafting and mechanical drawing techniques to represent three dimensional objects. You'll practice product and mechanical drawing using drafting and dimensioning principles.



### **LA 129 History of Automotive Design**

Automotive innovation and technological advancement are inseparable. Placing transportation design within an historical and cultural context, you'll recognize how innovations like the assembly line influenced transportation design.

### **LA 146 Anatomy of Automobiles**

Identify common automotive components and how they work together as a system. You'll satisfy a Quantitative Literacy requirement by learning convert units (metric and imperial), convert temperature (Fahrenheit and Celsius), and calculate volume.





## How to Apply

**ONLINE AT:**  
[academyart.edu](http://academyart.edu)

**BY PHONE:**  
**1.800.544.2787**

**IN PERSON:**  
**(Monday-Saturday)**  
**79 New Montgomery St.**  
**San Francisco, CA 94501**

**YOUR COMPLETED APPLICATION MUST INCLUDE:**

\$50 non-refundable, non-transferable, non-deferrable application fee

\$95 non-refundable, non-transferable, non-deferrable enrollment fee

*International applicants must also include a \$1,000 tuition deposit*

Fees can be paid by Mastercard, Visa, Discover, Check/Money Order (by mail)

## When to Apply

You can apply **up to two years before** you plan to enroll at Academy of Art University

Apply **year-round** to enroll for fall, spring and summer semesters

The Academy accepts applications through the first week of each semester

## Transfer Students

**COMPLETE THE APPLICATION**

**SUBMIT OFFICIAL ELECTRONIC TRANSCRIPTS TO:**  
[transcripts@academyart.edu](mailto:transcripts@academyart.edu)  
or

**MAIL OFFICIAL TRANSCRIPTS IN A SEALED ENVELOPE TO:**

**Academy of Art University**  
**Attn: Undergraduate Admissions Office**  
**79 New Montgomery St.**  
**San Francisco, CA 94501**

To jumpstart your transfer process you may submit unofficial transcripts from a domestic college or university to [transferoffice@academyart.edu](mailto:transferoffice@academyart.edu). This will allow you to receive an evaluation in advance on coursework previously completed.

Include:  
First name, last name and phone number where you can be reached

## ENROLL TODAY

**CONTACT US FOR MORE INFORMATION**  
**INFO@ACADEMYART.EDU**  
**OR CALL 1.800.544.2787**

Visit [academyart.edu](http://academyart.edu) to learn more about total costs, median student loan debt, potential occupations and other information.









# ACADEMY *of* ART UNIVERSITY®

Academy of Art University is located in downtown San Francisco and provides instruction around the world through its online campus.

We offer training in many specialized creative disciplines:

Acting\*  
Advertising  
Animation & Visual Effects  
Architecture  
Art Education  
Art History  
Communications & Media Technologies  
Fashion  
Fine Art  
Game Development  
Graphic Design  
Illustration  
Industrial Design\*  
Interaction & UI/UX Design  
Interior Architecture & Design

Jewelry & Metal Arts  
Landscape Architecture  
Motion Picture & Television  
Music Production & Sound Design for  
Visual Media  
Photography  
Visual Development  
Writing for Film, Television & Digital Media

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1.800.544.2787  
[www.academyart.edu](http://www.academyart.edu)

Accredited Member WSCUC, NASAD, CIDA  
(BFA-IAD, MFA-IAD), NAAB (B.ARCH, M.ARCH),  
CTC (California Teacher Credential).

\*The following degree programs are  
currently not offered 100% online:  
Acting and Auto Restoration.