

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,

Clisa 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



School of Industrial Design

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	
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
1 4 108	Composition for the 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

1 Quantitative Mechanics Course

LA 146 Anatomy of Automobiles

1 Employment Communications & Practices Course

LA 291 Designing Careers

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

AA Degree | 60 units

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

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 secondyear 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

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 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 unoffical transcripts from a domestic college or university to 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 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* 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 Academy of Art University 79 New Montgomery Street San Francisco, California 94105

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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.