



United Bicycle Institute

C A T A L O G



School Facilities

More bicycle professionals and enthusiasts have chosen United Bicycle Institute over any other mechanics school. That's because

UBI's knowledgeable, friendly and dedicated faculty and its state-of-the-art facilities ensure an unsurpassed educational experience for every student. We offer our curriculum at two different locations: our headquarters in Ashland, Oregon and our classroom facility in Portland, Oregon.



UBI has the most advanced mechanic and frame building instructional facilities in the bicycle industry. The Ashland building includes a 2000 square foot mechanics classroom and a 1200 square foot frame building shop. Every student workbench comes equipped with up to date tools, including a complete set of frame alignment tools, cutting tools, torque wrenches and wheel tensiometers. Our frame shop houses professional machine tools, TIG welders, torches and the best frame jigs in the industry. Our Portland facility includes a 3000 square foot mechanics classroom building and a 2400 square foot frame building shop next door.

UBI's Ashland facility is also solar powered! Our 8.4 kw photovoltaic system, installed in 2005, provides approximately 60 percent of UBI Ashland's annual electricity needs. This and UBI's other environmentally-friendly business practices have earned the company official Green Business designation from the City of Ashland.

Our Ashland headquarters is located next door to United Bicycle Supply, a leading wholesale supplier of bicycle tools. This keeps us exposed to and equipped with the latest technologies available anywhere. UBI's relationships with the industry's leading manufacturers means that students work on some of the latest components on the market.

United Bicycle Institute is licensed by the Oregon Department of Education as a private career school.

Faculty and Teaching Philosophy

UBI chooses dedicated, knowledgeable instructors with extensive backgrounds in mechanics, frame building, shop operation and other industry endeavors. Our instructors share a single philosophy — that learning bicycle mechanics should be fun. They love what they do and their infectious enthusiasm earns rave reviews from graduates. What's more, our faculty's extensive experience allows us to synthesize an approach to mechanics that draws from a wide variety of perspectives, from the service departments of busy shops to the trenches of the World Cup racing circuit.



UBI's unique teaching philosophy combines careful attention to safety, reliability and industry specifications with an emphasis on conceptual learning. We don't just rely on formulas, but give our students a deeper understanding of each mechanical procedure's underlying concepts. This combination of "how" and "why" hones students' problem solving skills, making them into more well-rounded mechanics. Our teaching style encourages a fun and creative learning environment which stimulates the mind, allows easy comprehension of bicycle mechanics, and accommodates a wide variety of student learning styles.

About Ashland, Oregon

Located at the confluence of the Cascade and Siskiyou mountains just north of the California border, Ashland is one of the coolest towns you will ever visit.

It is home to the Tony-Award winning Oregon Shakespeare Festival, one of the best repertory theatre companies in the world. Ashland's historic downtown has been preserved and looks much like it did at the turn of the 20th century, with quaint shops, galleries, boutiques and superb restaurants — all just an easy walk or bike ride from the school.



The Southern Oregon/Northern California region is a vacationer's paradise, offering spectacular hiking and mountain biking trails, world-class whitewater rafting, wilderness camping, rock climbing and skiing. The Britt Music Festivals, just 20 minutes from Ashland in historic Jacksonville, Oregon, offer superb outdoor concerts from rock to country to classical in the summer months. Crater Lake National Park, Redwood

National Park, Mt. Shasta, the ruggedly beautiful Oregon coast, and the remote, pristine eastern Oregon high desert are all just a few hours' drive from Ashland.

Whatever extra vacation plans you have, don't forget to bring your bike to UBI. You'll have access to some of the best road and mountain biking in the world. We're located just a few blocks from some of the sweetest single track in the west, as well as thrilling downhill runs. Road bikers can choose from mellow rides through the picturesque rolling hills and orchards of the Rogue River valley, or tackle some of the most challenging climbing this side of the French Alps!

About Portland, Oregon

Rated as the #1 cycling city in America, Portland is a bicyclist's dream — miles of bike paths, bike boulevards, shops, dozens of custom frame builders, and thousands of like-minded bicycle enthusiasts and activists. The bicycle infrastructure makes traveling by bike enjoyable and easy

year 'round. The city has great access to road rides for any ability, from meandering river paths to punchy forested roads. "Foodies" love Portland for the many restaurants and food carts available, as well as the rich micro-brew culture. No matter your taste or budget, there is always something around the corner.

Situated about an hour's drive from the Pacific Ocean and the high Cascade Mountains, Portland is the perfect gateway to weekend recreation.

Year-round skiing and boarding at Mt. Hood, epic mountain biking at nearby Mt. St. Helens, walks on the beach, hiking in the Columbia Gorge, tours of northern Oregon's countless wineries — the options are limitless. For those preferring to stay closer in, Portland offers countless music venues, as well as museums, galleries, an amazing zoo, parks, and shopping. Portland's bike-friendly mass transit system allows for easy, economical transportation throughout the city.



Tool and Parts Discounts

UBI Ashland is next door to United Bicycle Supply, the largest wholesale bicycle tool supplier in the industry. Our association with them allows our students to benefit when purchasing tools. For each UBI class you complete, you qualify to place an order with United Bicycle Supply at their current wholesale catalog prices. With this discount, you will be able to purchase tools at the same price that most bicycle shops pay. United Bicycle Supply allows you up to a year to place your orders, giving you plenty of time to consider which tools will best fit your needs. This offer extends to all UBI students, whether they choose to attend class in Ashland or Portland.

While attending UBI, students may order from several different wholesale parts distributors at a substantial discount from retail prices. Many students take advantage of this discount by replacing or upgrading parts on their personal bikes during our optional evening shop sessions.



UBI Mechanic Certification

UBI is the most respected training institute in the industry. There are more UBI graduates working in the field than from any other national mechanics school. We are proud of this record and continue to expand and improve our curriculum to keep pace with the rapid changes in bike technology. UBI offers two types of certification programs, both of which are recognized throughout the industry.

Certificate of Completion

We award a Certificate of Completion to all students who attend every class session and successfully complete all required course work. This certificate is available for every class we offer.

Certified Bicycle Technician Program

For those seeking employment in the bicycle industry, or for experienced mechanics wanting advanced certification, we offer our Certified Bicycle Technician program. This certificate means the student has passed a rigorous testing procedure and has been certified by United Bicycle Institute to be proficient in the given discipline.

The Certified Technician Program is offered for our Professional Repair and Shop Operation class and both of the Advanced Mechanics Seminars. Students enrolled in these classes who don't wish to take the examination, or who do not receive a passing score, will still be awarded a Certificate of Completion. UBI provides one opportunity each year for students to re-take the certification test if they don't pass the first time.

Introduction to Bicycle Maintenance

1 week

Designed for:

Beginner Mechanics

Home Mechanics

Fleet Mechanics

Our Introduction to Bicycle Maintenance course is designed with the beginning mechanic in mind. Here you will learn the basics of maintaining bicycles, from simple bearing system overhauls to tune-ups. This course will truly make you a self-sufficient cyclist, enabling you to perform most of the common repair and maintenance procedures routinely carried out by bike shop mechanics. The information presented is common to all types of bicycles.

This course is especially popular with enthusiasts and hobbyists, law enforcement fleet mechanics, and cycle tourists who need to be completely self-sufficient. Many career-oriented students find it to be an excellent foundation before taking our Professional Repair and Shop Operation class — although the Professional class has no pre-requisites. You're encouraged to bring your own bike to be used in class hands-on sessions, although that is not required.

Upon successful completion of the course, graduates will receive a Certificate of Completion.

Some of the Topics Covered include:

Bike Fit and Position

Bottom Bracket and Crankset
Overhaul/Replacement

Brake System Adjustment and Maintenance

Cable and Housing Replacement and
Maintenance

Derailleur System Adjustment and Maintenance

Maintenance Schedules

Emergency Roadside Repair

Flat Repair

Tire and Tube Design

Headset Overhaul/Replacement

Hub Overhaul and Adjustment

Pedal Replacement

Replacing Broken Spokes

Stem and Handlebars

Wheel Truing

Introduction to Bicycle Maintenance for Women

1 week

Designed for:

Beginner Mechanics
Home Mechanics
Shop Owners
Interested in Better
Serving Their
Women Customers

What you will learn:

This section of our Introduction to Bicycle Maintenance course is designed specifically for women. The industry in recent years has begun supplying products designed for women, but many women cyclists still find it challenging to achieve proper bicycle fit and to select appropriate components. This course covers all of the material in our general Introduction to Bicycle Maintenance curriculum,

Professional Repair and Shop Operation

2 weeks

Designed for:

Career Oriented
Beginner
Mechanics
Experienced Home
Mechanics Seeking
Additional Training
Career Oriented
Mechanics Seeking
Certification

What You Will Learn:

While designed for students with limited experience, the goal of this comprehensive, professional level course is to prepare students for employment in a bicycle shop, or to work on their own bicycles in a thorough, professional manner. The course also provides a solid foundation for those who wish to own their own shops, with a constant focus on quality customer service. We emphasize a great deal of hands-on experience, while offering both a component-by-component study of bicycle repair, as well as a study of the bicycle as a complete system. The information presented is applicable to all types of bicycles



The basics of bicycle shop operation are presented via formal lecture, hands-on sessions and an informal question and answer session. This format allows us to tailor this part of the class to the individual needs of the students. There is much misunderstanding of the bike industry, and the industry changes so quickly, that this open discussion allows students to ask those sensitive questions that they cannot ask their local bike shops.

Students who successfully complete all course requirements will receive a Certificate of Completion. Students who complete all course requirements and receive a passing score on the written mechanics examination will additionally receive the UBI Certified Bicycle Technician certificate.

but with special emphasis on the needs of the female cyclist. Students will receive instruction in proper bike fit for women, as well as a survey of the latest women-specific bicycle products.

As with our general Introduction course, students who successfully meet all course requirements will receive a Certificate of Completion.



Some of the Repair Topics Covered:

Bearing Theory – Conventional and Cartridge Bearings

Bicycle Fit and Frame Sizing for the Customer

Bottom Bracket Compatibility, Adjustment and Overhaul

Brake System Compatibility, Adjustment and Overhaul

Hydraulic and Mechanical Disc Brake Set-up and Maintenance

Chain Compatibility and Length

Chainline and Gearing

Crank Sets and Chainrings

Derailleur System Compatibility, Adjustment and Overhaul

Frame and Fork Preparation and Alignment

Frame Construction, Materials and Fabrication

Freehubs, Freewheels, and Cassettes

Handlebar and Stem Compatibility

Headset Compatibility, Adjustment and Overhaul

Hub and Axle Sets

Manufacturer Torque Specifications

Lubricants

Measuring: Calipers and Thread Pitch Gauges

Bicycle Overhaul

New Headset Standards

Pedal Systems and Cleat Compatibility

Saddle and Seatpost Design

Safety and Liability Issues

Shop Tool Selection and Use

Suspension Servicing and Tuneups

Tube and Tire Compatibility and Repair

Wheel Building and Repair

Shop Operation Topics Covered Include:

Customer Service

Employment Opportunities

Establishing Accounts

Liability

Shop Labor Rates

Sources of Supply

Starting a Small Shop

Advanced Certification Seminar Weeks

The following classes are designed for experienced mechanics, or UBI graduates who have completed our Professional Repair and Shop Operation course. The classes are intended to add specialized skills and a deeper level of understanding to the mechanic's existing training. Although these classes are scheduled to be taken in sequence as an entire week, they can be taken individually. A substantial tuition discount is offered when taking both seminars together.

Monday, and Tuesday

UBI/DT Swiss Certified Wheel Building

Wednesday, Thursday and Friday

Certified Suspension Technician

UBI/DT Swiss Certified Wheel Building

Monday & Tuesday

Designed for:

Career Oriented Students

Experienced Mechanics

Seeking Certification

Graduates of our Professional Course

What You Will Learn:

UBI has developed this course in conjunction with DT Swiss, a leading manufacturer of wheel building components, for experienced mechanics who have had some prior wheel building experience, as well as for students who have taken our Professional Repair and Shop Operation class and want to build on that foundation. We cover the most advanced topics of wheel building, from the theory and physics of the rotating wheel, to varied lacing patterns. The primary goal of the class is to help the student become a master wheel builder. Students will build a high quality set of wheels to exacting tolerances, with a choice of different lacing patterns. Students who successfully complete all course requirements will receive a Certificate of Completion. Students who complete all course requirements and receive a passing score on both the written examination as well as the wheels they build, will additionally be awarded the UBI/DT Swiss Certified Wheel Builder certificate in the seminar.

DT SWISS



Some of the Topics Include:

Customizing for the Discriminating Customer

Proper Component Selection

Precise Spoke Length Calculation

Lacing Patterns and Their Appropriate Application

Tool Selection

Wheel Design and Symmetry

Wheel Dynamics and Loading

Certified Suspension Technician

Wednesday,
Thursday & Friday

Designed for:

Career Oriented Students
Experienced Mechanics Seeking Certification
Graduates of our Professional Course

What You Will Learn:

Bicycle suspension is probably the most dynamic topic in the bike industry. With suspension systems evolving and even entry level bikes coming equipped with suspension, demand for suspension technicians is high. Shops that can overhaul and repair their customers' suspension systems have a distinct advantage over their competitors. And mechanics with suspension skills will find themselves more attractive to potential employers.



Our three day seminar will bring students up to speed on all current suspension systems, as well as prepare them to service most other systems on the market. By the end of the seminar, suspension theory will be demystified, and students will be intimately familiar with the workings of all the popular suspension systems. Our relationship with the major suspension manufacturers and our ample supply of the latest suspension-specific tools, parts and accessories assures that seminar graduates will return to the

shop with a new-found confidence in this rapidly-changing bike technology.

Students who successfully complete all course requirements will receive a Certificate of Completion. Students who complete all course requirements and receive a passing score on the written suspension examination receive the UBI Certified Suspension Technician certificate.

Some of the Topics Include:

Coil Spring, Elastomer, Air/Oil and Air/Air system servicing
Damper Service and Tuning
Linkage Designs
Safety and Liability
Suspension Seatposts
Suspension Terminology and History
Suspension Tuning
Suspension Upgrades

Frame Building and Welding Classes

Designed for:

First Time Frame Builders
Career Oriented Students
Enthusiasts
Desiring to Build Their Own Frame

What You Will Learn:

Fulfill a dream by designing and building your own frame at one of our unique frame building classes. We are uniquely qualified to offer bicycle frame building and welding classes. These courses, taught by recognized master frame builders, are designed for enthusiasts who want the satisfaction of riding a frame they built themselves, and for students who want to become professional frame builders. Although our frame building classes are intensive, no prior frame building, welding or brazing experience is required.

We offer three different two-week frame building classes: Brazed Steel, TIG Welded Steel, and TIG Welded Titanium. In all three frame building classes, students will build a high-quality frame they take with them after class. Students may build a mountain, road, hybrid, cyclocross, BMX, track or trials bicycle frame.

All materials and supplies necessary to build a high-quality custom frame are included in the tuition price. Each frame will be built with a full compliment of braze-ons. If building a lugged frame in our steel brazing class, students will use high quality investment cast Cromoly lugs.

Students who successfully complete any of UBI's frame building classes will receive a Certificate of Completion.

Frame Building Class Topics:

- Brazing and Welding Techniques
- Equipment and Jig Setup
- Finish Work
- Frame design, Geometry and Proper Fit
- Shop Safety
- Tool Selection and Use
- Tubing Materials and Properties
- Tube Mitering and Preparation
- Tubing Selection





Brazed Steel Frame Building

2 weeks



Many of the highest-quality custom steel frames are brazed, so it is no surprise that our most popular frame class is our Brazed Steel course. We recommend it for the avid cycling enthusiast, the bicycle shop mechanic, shop manager, or student who aspires to become a custom frame builder. Both lugged and fillet brazed frame building are covered, and students can choose to build frames using either method.

Though the course can be intense and requires focus and dedication on the part of the student, beginners with average mechanical aptitude and no previous building experience complete it successfully. In most cases, every step of the construction is done entirely by the student. However, expert instructors are always nearby and ready to help. Students who successfully complete this class will leave with a high quality custom steel bicycle frame ready for painting. They will also receive a Certificate of Completion.

TIG Welded Steel Frame Building

2 weeks

Our TIG Welded Steel Frame Building class offers the same instruction in frame design and construction basics as our Brazed Steel class, but uses TIG welding as the joining method. There are several specially designed practice welding sessions early in the course that will prepare students to TIG weld a quality steel frame.

Most people in the field consider welding skill to be somewhat more difficult to acquire than brazing skill. Students interested in this course should, therefore, have at least average mechanical skill and good hand-eye coordination. Good close-up vision is also important, especially in the widely variable light conditions characteristic of the TIG welding process. Students who successfully complete this class will leave with a high quality custom steel bicycle frame ready for painting. They will also receive a Certificate of Completion.

TIG Welded Titanium Frame Building

2 weeks



Our TIG welding Titanium Frame Building class offers all that the TIG welded steel class encompasses, but uses titanium instead of steel for tubing materials. Special emphasis is placed on proper cleaning and purging of titanium tubes, titanium machining problems and solutions, as well as proper titanium welding techniques.

The specially designed practice welding sessions early in the course will prepare the student to weld his or her own titanium frame. As with our steel TIG frame class, good close-up vision is important especially in varied light conditions. Students who successfully complete this class will leave with a high quality custom titanium bicycle frame. They will also receive a Certificate of Completion.

TIG Welding Seminar

2 days

The TIG Welding Seminar is designed to introduce TIG welding to prospective frame builders, or builders with only brazing experience. This class is offered after most Steel Brazing Frame Building classes to allow students to get experience in both brazing and TIG welding. Though not required, students also take the seminar in preparation for one of our TIG welding frame building classes.

The seminar covers, in detail, equipment selection and use. Special emphasis is placed on producing strong, cosmetically appealing weld beads in bicycle frame joints. As with all UBI classes, plenty of hands-on practice is combined with lectures and demonstrations. Students will learn the importance of accurate tube mitering and will have the opportunity to weld numerous steel practice joints during the seminar. Students who successfully complete the seminar will receive a Certificate of Completion.



Alumni Frame Building

5 days

Alumni of our frame building classes often tell us they'd love to come back to UBI to build another frame. This class allows graduates of UBI frame classes to build another frame without enrolling in another full two-week class. This streamlined

class is basically a supervised open work session, and provides students with full access to our frame shop for five days.

UBI staff will be on hand to supervise students in mitering, fixturing and joining their tubes, as well as prepping the finished frames. However, classroom instruction and practice time will be minimal, and limited to brief refreshers on equipment operation and safety. Students must arrive at UBI with a full-scale frame drawing approved by UBI, and be ready to get down to work immediately.

Students may choose to work in steel or titanium, and in general may build any frame that conforms to the guidelines of our regular frame building classes.

Unlike UBI's other courses, which are enrolled on a first-come, first-served basis, this continuing education course is available by application only. Students must have received a Certificate of Completion from a two-week UBI frame building course to be eligible. Preference will be given to students who have taken more than one frame building course, and/or completed a frame course within the last three years.

Specialty Continuing Education Seminars

1-3 Days

UBI occasionally offers specialty seminars in both mechanics and frame building. These continuing education seminars are designed for industry professionals who are looking to add to their skills, or seeking training in emerging technologies.



Check our web site at www.bikeschool.com for topics, schedules and locations.



References

If you would like to contact any of our former students to ask their opinions of UBI and our courses, we'll be happy to supply you with a list of graduates.

How Do I Sign Up?

Enrolling in our classes is easy. Fill out the UBI Enrollment Agreement and include the required registration fee(s) to hold your spot in class. You may submit your application to us either by mail, fax, or on-line via our web site at www.bikeschool.com. If registering by mail, a check, money order, or credit card information is required (we accept Mastercard, VISA, American Express or Discover). If registering by fax, or on-line, we accept only credit cards (Mastercard, VISA, American Express or Discover) for registration fee payments. Please note, all UBI fees and tuition are payable in U.S. funds only, and a registration fee must accompany your signed enrollment agreement to be valid. If the class for which you are registering is full and you're placed on a waiting list, no registration fee will be charged until we can guarantee a spot for you in the class.

Upon receipt of your application and registration fee(s), we will immediately send you a confirmation letter by mail, as well as an e-mail confirmation. Your tuition balance is due on or before the first day of class. Tuition payments may be made with cash, check, money order, Mastercard, VISA, American Express or Discover. Your tuition includes instruction, student handbooks, use of facilities and tools, and instructional materials. With the exception of the Alumni Frame class, ***class spots are filled on a first come, first served basis and often fill three to four months in advance of class, so please register early!***

Students under 18 years of age must have the signed permission of a parent or guardian to enroll in any UBI class.

Students enrolling in the Introduction to Bicycle Maintenance or Introduction to Bicycle Maintenance for Women classes must be at least 15 years old at the time class starts. Students enrolling in the Professional Repair and Shop Operation or Advanced Certification Seminar Week must be at least 16 years old. Students enrolling in any of the frame building classes or the TIG Welding Seminar must be at least 18 years old at the time class starts.

UBI Cancellation and Class Withdrawal Policy

If you enroll for a UBI class and find you must cancel, **your registration fee(s) will not be refunded unless the cancellation occurs within five business days of our receipt of your enrollment form.** If you cancel later than five business days following our receipt of your enrollment form, your registration fee will not be refunded; however, you will have a one-time opportunity to apply the fee to a later UBI class, providing the class occurs within one calendar year of your original class. Transfer requests must be received in writing at least 30 days in advance of the class start date. Any tuition fees paid in advance will be refunded minus the registration fee.

If you begin class at UBI and find you must withdraw, your tuition will be refunded on a pro rata basis, less any registration fee, provided you have completed less than 50% of the class.

UBI's refund policy for Veterans complies with CFR 21.4255. Veterans should see UBI's enrollment agreement for more information.



International Students

UBI is authorized under U.S. law to enroll non-immigrant students. Most non-U.S. citizens will require a student visa to enter the U.S. to attend UBI. Please contact us at register@bikeschool.com for more details.

Students for whom English is a second language should exhibit English proficiency in order to enroll for UBI classes. Contact us at register@bikeschool.com for specific score guidelines on the TOEFL and/or TOEIC tests.

Veterans and Vocational Rehabilitation Clients

If you are interested in attending UBI as part of a vocational rehabilitation program, the school is an eligible WIA provider in the state of Oregon, as well as many other states. We are fully prepared to work with your vocational counselor to design an effective program for you. Please contact us at 541-488-1121, or by e-mail at register@bikeschool.com to discuss your needs.

UBI Ashland is approved by the Oregon Department of Education for the education and training of veterans and other eligible persons. Veterans should contact us at veterans@bikeschool.com for more information.

Questions?

Feel free to call us if you have any questions at 541-488-1121 between the hours of 8:00 am and 5:00 pm Pacific time, Monday through Friday (excluding holidays). You may also fax us at 541-488-3485, or e-mail askus@bikeschool.com. Be sure to visit our web site at www.bikeschool.com for the latest information on United Bicycle Institute.

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