

Career Development / Licensure & Certification

WESTERN MARYLAND WORKS

at ALLEGANY COLLEGE of MARYLAND

37 Lane Avenue, LaVale, Maryland 21502

The Makerspace at Western Maryland Works is a vibrant community hub designed to empower creativity, innovation, and hands-on learning. Our Makerspace provides opportunities for designing, experimenting, and inventing with a wide range of tools and technologies. It's a collaborative space for hobbyists, artists, engineers, and entrepreneurs to learn, create, and share ideas. With specialized resources and advanced equipment, the Makerspace at Western Maryland Works empowers innovation and fosters a vibrant community of makers. We are open to the public for individuals aged 16 or older.

We offer flexible membership options to grant access to the space for personal projects and creative endeavors:

- **Maker Day Pass:** \$10
a one day pass for our woodshop and digital lab (laser engraver not included)
- **Works Membership (30-day):** \$55
allows access to our woodshop, digital lab and machining lab for 30 days
- **Resident Membership (30-day):** \$80
allows access to our woodshop, digital lab, machining lab and advanced manufacturing for 30 days

Please contact us for information on student memberships or corporate memberships.

To register for a class or to obtain class availability, please call 301-784-5341.

To schedule a private group class for your organization or to come for a specific project, please call 301-784-5681 or email [Laura Rivers at Lrivers2@allegany.edu](mailto:Lrivers2@allegany.edu).

Woodshop Courses

*To be certified to use Makerspace Woodshop we offer monthly tours/safety courses. For questions regarding the WMW Makerspace or Membership, please email Laura Rivers at Lrivers2@allegany.edu.

Introduction to the Woodshop (MAK350)

This is an introductory class for use of the makerspace woodshop. You will receive a guided tour of the makerspace and the safety procedures of using the woodshop tools and equipment.

Upon completion of this course, the student is then certified to use the makerspace woodshop during the makerspace hours and will receive a one-month (30 day) membership to the makerspace.

1/7, Tuesday, 5:00 PM – 9:00 PM
2/13, Thursday, 5:00 PM – 9:00 PM
3/24, Monday, 5:00 PM – 9:00 PM
4/30, Wednesday, 5:00 PM – 9:00 PM
6/24, Tuesday, 5:00 PM – 9:00 PM
Western Maryland Works – LaVale, MD
Instructor: STAFF
Course Cost: \$50 (Includes a month of makerspace use)
Maryland Senior Course Cost \$45

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Make Your Own Spinner (MAK 339)

This is a perfect first-time woodworking class. As such, this class is designed to introduce the beginner woodworker to learn the tools and safety. You will learn: (1.) the basics of safety, (2.) the function of each of the cutting tools, (3.) sequence sanding, (4.) and how to achieve a highly polished finish. All the supplies are included in the class fee. Our goal is for you to finish with some basic woodworking knowledge and a creation that you can gift or display. You choose the color and size for your spinner.



1/25, Saturday, 9:00 AM – 1:00 PM
 3/26, Wednesday, 5:00 PM – 9:00 PM
 5/5, Monday, 5:00 PM – 9:00 PM
 Western Maryland Works – LaVale, MD
 Instructor: Dustin Davis
 Course Cost: \$39
 Maryland Senior Course Cost: \$34

Make Your Own Lathed Turned Bowl (MAK446)

This is our most popular wood turning class! This course will introduce you to the wood lathe and the process of making a wide rimmed wooden bowl. You will choose your species of wood from a variety of blanks. This class will cover tool safety and usage, turning techniques, and selecting and preparing wood. Participants will be taken through the steps of 1.) mounting blanks, 2.) using the bowl gouge, 3.) roughing out a foot, 4.) carving out the interior of the bowl, and 5.) learning the finishing techniques. Participants will make-and-take their own turned bowl. The instructor will emphasize the importance of proper technique, correct tool usage, and protective gear. Due to the popularity of this class, there are four offerings for this course.

1/11, Saturday, 9:00 AM – 3:00 PM
 3/8, Saturday, 9:00 AM – 3:00 PM
 5/24, Saturday, 9:00 AM – 3:00 PM
 6/7, Saturday, 9:00 AM – 3:00 PM
 Western Maryland Works – LaVale, MD
 Instructor: Dustin Davis
 Course Cost: \$40
 Maryland Senior Course Cost: \$35

Make Your Own Prayer Bowl (MAK 348))

This class is offered for spring only, choose your preferred date and register today! Welcome to the introductory-level turning class that combines the mini lathe with the laser engraving. In this class, you will be introduced to the fundamentals of woodworking, starting with a basic understanding of turning and will guide you through the essential skills, like choosing your wood size and species, tool specific tool uses on a mini-lathe, and sanding & finishing. The instructor will teach you how to create a bowl, the student will then choose a small wooden inset to be laser engraved with their choice of name/word or verse. The instructor will emphasize the importance of proper technique, correct tool usage, and protective gear for the safest experience. Two chances to join this class!



2/1, Saturday, 9:00 AM – 1:00 PM
 4/7, Monday, 5:00 PM – 9:00 PM
 Western Maryland Works – LaVale, MD
 Instructor: Dustin Davis
 Course Cost: \$48
 Maryland Senior Course Cost: \$43

Make Your Own Handwoven Basket (MAK478)

This course offering is designed to allow the students to go beyond the basic woodworking skills. This is considered an intermediate class and is a three-part, 12-hour commitment. The students will be able to make a hinged lid basket with cut bands and weavers and a wooden floor. The process will involve cutting, drilling, weaving, looping, measuring and finishing.

3/4, 3/6, 3/11 T/TH/T (3 sessions)
 5:00 PM – 9:00 PM
 Western Maryland Works – LaVale, MD
 Instructor: Gary Taylor
 Course Cost: \$78
 Maryland Senior Course Cost: \$73

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Make Your Own Chaotic Cutting Board (MAK399)

In this **advanced level** class, you will be introduced to the basics of woodworking while learning how to transform a combination of different wood species into a work of art. Each student will have a unique board reflecting their personal choice in species, location of placement and style of the individual. After completion, you will be tempted to only display for admiration but your finished project will be a fully functional, food-safe, charcuterie board.

NEW



Participants, under the guidance of a master carpenter, will learn the proper use of professional grade power tools such as table saws, planers, joiners, miter saws, band saws, router/shaper tables, drum sanders, and spindle sanders. Students will also gain instruction on clamping techniques and various hand tools as well as measuring, cutting and assembling of pieces. The instructor will provide guidance on the safest use of saws, routers, and sanders, ensuring you feel confident and comfortable in their usage. This is a 4-part evening course and a 16-hour commitment.

4/22 & 4/24, 4/29 & 5/1, T/TH (4 sessions)

5:00 PM – 9:00 PM

Western Maryland Works – LaVale, MD

Instructor: Gary Taylor

Course Cost \$99

Maryland Senior Course Cost: \$94

Make Your Own French Rolling Pin (MAK450)

This **beginner's** course will be how to make a French rolling pin on a large or mini lathe, depending on the size desired. The object of the class is to make a rolling pin from a single block plank. After turning on the lathe, the pin is sanded and finished. You will be provided the protective gear to ensure a safe and enjoyable learning experience. At the end of the class, you will take home a functional food-safe rolling pin or a beautifully handcrafted show piece or gift.

2/5, Wednesday, 5:00 PM – 9:00 PM, OR

4/12, Saturday, 9:00 AM – 1:00 PM

Western Maryland Works – LaVale, MD

Instructor: Dustin Davis

Course Cost: \$50

Maryland Senior Course Cost: \$45

Make Your Own Personalized AMORE Cutting Board (MAK357)

This is a special edition cutting board class designed for the Valentine's Day holiday, Anniversary Gift, Wedding Gift or for your own personal use. This is a **beginner** level class and is perfect for a first-time wood worker. Under the guidance of an experienced woodworking professional, participants will operate industrial-grade power tools such as the table saw, joiner, planer, router table, miter saw, drum sander and spindle sander to assemble their projects. This is a 2-part course; the first night you will be making the board and the second night is for finishing & laser engraving the board. This board will have two different offerings, one for the Valentine's Day holiday and one for the wedding/anniversary season. There are two styles to pick from for this project.



2/10 & 2/12, M/W, 5:00 PM – 9:00 PM

(2 sessions), OR

6/9 & 6/11, M/W, 5:00 PM – 9:00 PM

(2 sessions)

Western Maryland Works- La Vale, MD

Instructor: STAFF

Course Cost: \$57

Maryland Senior Cost: \$52

CNC Router Applications (MAK466)

This class is considered a more advanced woodshop course because it is designed to enable the student, who is involved in product development, to learn applications using the CNC Router software. Topics to be covered include safety procedures, machine setup, operation, and a comprehensive final project. The student will apply learned principles, import the job, analyze the material characteristics, prepare the file and complete a final project. The total course will be 8 hours and a two-evening commitment.

1/14 & 1/16, T/TH 5:00 PM – 9:00 PM

(2 sessions), OR

4/8 & 4/10, T/TH 5:00 PM – 9:00 PM

(2 sessions)

Western Maryland Works – LaVale, MD

Instructor: Gary Taylor

Course Cost: \$66

Maryland Senior Course Cost: \$61

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Make Your Own Damascus Steel Knife (MAK373)

This creation will make a great fishing fillet knife or kitchen knife. In this course, you will be making your own hand carved wooden handle and learning the techniques of handheld wood carving. The step-by-step process will include safety techniques and procedures. This is a **beginner level** course with step-by-step instruction.



1/27 & 1/29, M/W, 5:00 PM – 9:00 PM
(2 sessions), OR

3/17 & 3/19, M/W, 5:00 PM – 9:00 PM
(2 sessions)

Western Maryland Works – LaVale, MD

Instructor: Dustin Davis

Course Cost: \$73

Maryland Senior Course Cost: \$68

Make Your Own Keepsake Box (MAK 366)

This class is considered an **intermediate** level class that will introduce the woodworker to more techniques than in a beginner class. The student will choose the wood species so each student will have a unique creation. The instructor will walk the student through every step of the process with safety measures and careful guidance so that the student feels comfortable with each tool that is used. In this class, the student will cut, measure, assemble, sand and finish the project in three separate class times.

2/18, 2/20, 2/25, T/TH/T, 5:00 PM – 9:00 PM
(3 sessions), OR

5/6, 5/8 & 5/13, T/TH/T, 5:00 PM – 9:00 PM
(3 sessions)

Western Maryland Works- LaVale, MD

Instructor: Gary Taylor

Course Cost: \$66

Maryland Senior Course Cost: \$61

DIGITAL FABRICATION LAB COURSES

Our Digital Fabrication Lab offers courses designed for both beginners and advanced learners, providing hands-on experience with cutting-edge 3D printing and laser engraving/cutting technology. Since the opening of the Western Maryland Works Makerspace, there has been a growing demand for skills in creating projects using computer software, as well as interest from business entrepreneurs seeking to expand their expertise. These classes are held in the state-of-the-art Western Maryland Works Digital Fabrication Lab.

Intro to Laser Engraving (MAK140)

This introductory course covers the fundamentals of laser engraving and cutting. Students will learn how to operate the Universal Laser System and explore techniques for designing personalized items to engrave or cut. Each class will guide students through a make-and-take project, with the instructor providing step-by-step instructions. The projects will vary based on upcoming holidays, allowing students to create themed items for the season.

2/11, Tuesday, 5:00 PM – 9:00 PM

3/25, Tuesday, 5:00 PM – 9:00 PM

4/1, Tuesday, 5:00 PM – 9:00 PM

5/27, Tuesday, 5:00 PM – 9:00 PM

Western Maryland Works – LaVale, MD

Instructor: Alexandra Edwards

Course Cost: \$40

Maryland Senior Course Cost: \$35

Intro to 3D Printing (MAK125)

In this introductory to 3D printing class, the student will be taught to use the WMW Makerspace 3D printers using the BAMBÙ Slicer program. The instructor will lead the students through a step-by-step process on how to prepare a pre-formed 3D model for printing on the Makerspace equipment. The student will receive an already printed 3D souvenir to take home. This is four-hour course with several offerings.

1/9, Thursday, 5:00 PM – 9:00 PM

3/13, Thursday, 5:00 PM – 9:00 PM

5/22, Thursday, 5:00 PM – 9:00 PM

Western Maryland Works – LaVale, MD

Instructor: Colton Bender

Course Cost: \$25

Maryland Senior Course Cost: \$20

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Intro to Adobe Illustrator (MAK025)

This course is considered intermediate level and designed to prepare students for workforce positions that require the use of Adobe Creative Cloud design applications. Topics include: raster image editing; vector image creation and manipulation; page layout; file management; and graphic design workflow.

1/13, Monday, 5:00 PM – 9:00 PM
3/3, Monday, 5:00 PM – 9:00 PM
5/14, Wednesday, 5:00 PM – 9:00 PM
Western Maryland Works – LaVale, MD
Instructor: William Baxter
Course Cost: \$25
Maryland Senior Course Cost: \$20

T-shirt Printing 101 (MAK150)

This is an introductory course to gain knowledge on using the garment printer for your personal or entrepreneur use. Our makerspace is designed to allow creativity whilst growing your current business or capturing lost business. The garment printer allows you to get into the profitable world of custom apparel or simply making family reunion tees or your child a special birthday tee. Bring your ideas (in particular on a flash drive) and a white or light-colored t-shirt to design during this class. This class allows for up to FIVE shirts to be personalized. This is a one-time 4- hour course with several different offerings.



2/28, Friday, 5:00 PM – 9:00 PM
4/25, Friday, 5:00 PM – 9:00 PM
5/9, Friday, 5:00 PM – 9:00 PM
6/18, Wednesday, 5:00 PM – 9:00 PM
Western Maryland Works – LaVale, MD
Instructor: Adron Fiscus
Course Cost: \$50
Maryland Senior Course Cost: \$45

Print & Design 101 (MAK355)

This is an introductory course to teach the basics on the Roland UV & Banner Machine. In this course, you will be making either a banner or a UV print of the student's choice. The UV and the banner maker are both highly favored machines. The technician will put the student's ideas and size preference into the system to print. The student may bring a hard drive with a brand, idea or design with them to the class. After this class is completed, not only will the student have the finished product but also the knowledge to return as a maker. **This class includes a 30-Day Membership to the Makerspace.**



1/23, Thursday, 5:00 PM – 9:00 PM
2/7, Friday, 5:00 PM – 9:00 PM
4/3, Thursday, 5:00 PM – 9:00 PM
5/19, Monday, 5:00 PM – 9:00 PM
6/10, Tuesday, 5:00 PM – 9:00 PM
Western Maryland Works – LaVale, MD
Instructor: STAFF
Course Cost: \$55
Maryland Senior Course Cost: \$50

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MACHINIST TRAINING

Learn both Manual and Computer Numerical Control (CNC) Machine Tool Technology with extensive hands-on and computer-based training at Western Maryland Works facility at 37 Lane Avenue. The 720- hour series is designed to prepare students to become well-rounded entry level manual and CNC Machinists with upward mobility potential. The classes are predominantly hands-on training. College credit is not awarded for this program, rather it is designed around industry recognized credentials based on skills needed for a career in manual and CNC machining and manufacturing.

Students will have the opportunity to earn up to 13 NIMS (National Institute of Metalworkers) Credentials including: NIMS Machining Level 1 Measurement, Materials, & Safety; Job Planning, Benchwork, & Layout; Drill Press I; Milling I; Turning I (Between Centers); Turning I (Chucking); Grinding I; Metalforming I; CNC Mill Operations; CNC Mill Programming, Setup, and Operations; CNC Lathe Operations; CNC Lathe Programming, Setup, and Operations; and a Certificate of Special Merit.

For more information on the National Institute for Metalworking Skills (NIMS), please visit: <https://www.nims-skills.org>.

**For more information and potential scholarships please contact
Gracie McLeod at mmcleod14238@allegany.edu**

Classes forming in August 2025

Monday – Thursday

4:00 PM – 7:00 PM

Western Maryland Works – LaVale, MD

Instructor: Robert Prosser

Course Cost: \$9,668

Maryland Senior Course Cost: \$8,868



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WELDING

In our welding lab, safety is our number one priority! In preparing for your welding course, required protected gear is included in course cost. Please also wear appropriate clothing to class every night to ensure your safety. Proper clothing includes long pants or jeans with no holes or frays, a long sleeve shirt, and work boots. No tennis shoes allowed.

Shielded Metal Arc Welding (VTE711)

This 80-hour course will provide participants with a thorough, technical understanding of shielded metal arc welding, welding safety, power sources (AC and DC), electrode classifications, and electrode selection (E6010 & 7018). It also provides training to develop the skills necessary to make quality shielded metal arc welds in all positions (flat, horizontal, vertical up, and overhead) on mild 3/8 inch steel. Single and multiple passes using mild steel, low hydrogen, and iron powder electrodes will be covered. Upon successful completion, the student should be able to perform production welding, millwright work, and general maintenance welding. To certify, trainees must complete an additional 40-hour welding course in preparation for the following skills tests: fillet and groove welds done in the flat, horizontal, vertical, and overhead positions (visual inspection and AWS guided bend tests performed by an independent CWI).

2/24 – 4/30, M/W (20 sessions)

5:00 PM – 9:00 PM

Western Maryland Works - LaVale, MD

Instructor: Gary Taylor

Course Cost: \$1,299

Maryland Senior Cost: \$1,289



Shielded Metal Arc Certification (VTE714)

This 40-hour course will provide training for experienced and trained welders in preparing for certification testing in the shielded metal arc welding process. Test certification will be performed on 3/8-inch steel plate. You will prepare to test in two positions: vertical up and overhead passes. You will also practice welding on test plates to prepare for the final testing. All certification testing will be performed by a Certified Welding Inspector under American Welding Society (AWS) welding specifications and procedures.

5/5 – 6/9, M/W (10 sessions)

No class 5/26

5:00 PM – 9:00 PM

Western Maryland Works - LaVale, MD

Instructor: Gary Taylor

Course Cost: \$599

Certification Testing Fees: \$400 (Fee includes vertical and overhead tests, certification papers, and ID card)

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MIG/TIG Welding (VTE748)

This 40-hour intermediate course is for the welder with basic welding experience. You will train in welding safety, gas metal arc welding (GMAW-MIG), and gas tungsten arc welding (GTAW-TIG) processes. The course includes metal arc transfers of short-circuiting, globular, spray arc, and power mode. Also included is instruction in how various shielding gases affect gas metal arc and gas tungsten arc welding. Hands-on experience will be dedicated to welding on basic carbon steel using edge, corner, lap, and fillet welds in all positions. Welding is limited to regular thin, flat material and does not include thick plate, pipe, or other irregular shapes. In preparing for your welding course, you must provide leather welding gloves, protective eyewear, welding helmet, and welding jacket. The Welding Starter Package must be purchased if you don't have the necessary gear.

2/25 – 3/27, T/TH (10 sessions)

5:00 PM – 9:00 PM

Western Maryland Works – LaVale, MD

Instructor: Harry Riggleman

Course Cost: \$599

Maryland Senior Course Cost: \$589

Welding Starter Package: \$240

MIG/TIG Certification (VTE854)

This 40-hour course will provide training for experienced and trained welders in preparing for certification testing in gas metal arc welding (GMAW-MIG) and gas tungsten arc welding (GTAW-TIG) processes. Test certification will be performed on 3/8-inch carbon steel plates in vertical and overhead positions. Hands-on experience will include practicing on test plates in preparation for final testing. All certification testing will be performed by a Certified Welding Inspector under American Welding Society (AWS) standards.

4/1 – 5/6, T/TH (10 sessions)

No class 4/17

5:00 PM – 9:00 PM

Western Maryland Works – LaVale, MD

Instructor: Harry Riggleman

Course Cost: \$599

Certification Testing Fee: \$600 (Fee includes vertical and overhead tests in MIG & TIG, certification papers and ID card.)

Maryland Senior Course Cost: \$589 (plus testing fees)

**For more information and potential scholarships please contact
Gracie McLeod at mmcleod14238@allegany.edu**

WELDING SCHOLARSHIP OPPORTUNITY!

The Wilson Supply/Veryl Morgan Scholarship memorial award honors Veryl Morgan's dedication and long-term service to Wilson Supply. The Scholarship is awarded to Allegany County continuing education students in the fall and spring semesters. Please submit application letter indicating why you are interested in welding; why you are the best candidate for the award; and enrollment date to:

Wilson Supply/Veryl Morgan Scholarship Fund

c/o Shea Bonarigo,

Allegany College of Maryland Center for Continuing Education

12401 Willowbrook Road • Cumberland, MD 21502

THANK YOU, WILSON SUPPLY COMPANY

For Providing the Endowed Wilson Supply/Veryl Morgan Scholarship Fund



*Career Development / Licensure & Certification***INDUSTRIAL MAINTENANCE TECHNOLOGY**

Industrial maintenance technology is a field of study and practice that focuses on the maintenance, repair, and operation of industrial equipment and systems. It encompasses a wide range of activities aimed at ensuring that machinery and infrastructure within industrial settings function efficiently, safely, and reliably. Whether you are new to the industry or a seasoned professional looking to enhance your expertise, this program offers something for everyone.

Industrial Maintenance Courses listed below:

- Basic Hydraulic Systems (IMT300) 110 Hours
- Basic Mechanical Systems (IMT200) 100 Hours
- Basic Pneumatic Systems (IMT400) 80 Hours
- Electrical Systems I & II (IMT501/502) 180 Hours
- Maintenance Operations & Rigging (IMT100) 120 Hours
- Process Control Systems (IMT700) 70 Hours

Participants who complete will earn National Institute of Metalworking Skills (NIMS) credentials. For more information on the National Institute for Metalworking Skills (NIMS), please visit: [https:// www.nims-skills.org](https://www.nims-skills.org).

Cohorts are being formed.

For more information and to join a potential cohort, please contact
Gracie McLeod at mmcleod14238@allegany.edu