**Semester(s) offered:   Fall 2018**

**Berrien Springs Parent Partnership**

**Independent Study/Project Based Learning Course Description and Syllabus**

**Course Title: Woodturning With Jim**

**Ages/Grade Levels: Age 12 and above**

**Class size: Min: 4 Max: 6**

**Location Name: Lake Michigan Colllege Fabrication Laboratory (Fab Lab)**

**Location Address: 2755 E. Napier Ave., Benton Harbor, MI 49022**

**Provide directions to location if necessary:**

**The Fab Lab is located on the LMC main campus. It is inside the Hanson Technology Center. It is advised that you familiarize yourself with the specific location of and parking for the Fab Lab prior to the first class session.**

**Start Date: September 19  
End Date: December 5** (Must be at least 16 hours of instructional time)

**Day of the Week: Wednesdays**

**Begin and end time of class: 10 AM-Noon**

**Contact/Instructors: Jim Neuman**

**Email: jneuman9@gmail.com**

**Best phone #: 269-921-0437 Publish # on website? Yes**

**Does the student also need to register with you or at your location? No**

**Classes will be (circle one): Pass/Fail What is the criteria for passing the class? Please list or attach your studio policy or class policy/expectations and grading rubric.**

**To pass the class students must demonstrate that they have a grasp of woodturning tools and techniques, and show significant improvement from week to week. Understanding technique is important, but even more important is being able to actually apply that technique in your work.**

**Briefly describe the course, including topics to be covered and subject areas that the course will cover –this is what will be posted on our website:**

**This class will cover most aspects of woodturning. Safety is strongly emphasized. Different types of wood will be used with an explanation of where those woods are grown and why they are appropriate. Topics include:**

**Identifying parts of the lathe.**

**Types of lathe tools and their specific uses.**

**Turning between centers.**

**Faceplate turning.**

**Trees and wood.**

**Laws of woodturning.**

**Sanding and finishing.**

**Project design.**

**Weekly breakdown of instruction: (write on separate sheet if necessary)**

**Topics listed will be covered in no particular order. Rather, the progress of students will determine what and when topics are taught.**

**All classes must have a min. of 4 Course Objective Checkpoints unique to your class.** You will note on the attendance sheet when students have met these objectives. Write in #’s 2 and 3 here and on the attendance sheet:  
 **1st: pre-test**

**2nd: Complete satisfactorily at least two projects using spindle turning techniques.**

**3rd: Complete at least two projects using faceplate turning techniques.**

**4th: post-test**

**Final project/performance:** The student is to select, as appropriate a final project that will demonstrate what they have learned over the course of the semester and aligns with their learning goal. The student should have input into what they present as their final project. This can be in the form of a presentation, art fair, performance, recital, art gallery, written report, final exam, musical composition, product such as woodworking, jewelry, food harvest or presentation, video, graphic or other visual artwork. Completion of the final project should figure in as part of the pass or fail grade that you determine based on your rubric.

**Write in the name of the project and completion date on the attendance sheet.**

**List any materials that students are required to bring to class:**

**Students will be issued a book with a DVD to borrow: Woodturning: A Foundation Course**

**A fee of $35 will be collected when the book is issued to assure that the book/DVD is returned in good condition. The easiest way to do that is to write a check which will be held without cashing, and then returned when the book/DVD is returned.**

**Access to a computer will be helpful.**

**List any required or optional online resources you will use in class or students can use to supplement:**

**Attach or list** one 10 question (multiple choice, T/F, or open ended) pre/post-test to be given the first and last week of class that will assess knowledge of subject(s) covered in class during the semester OR how you plan to assess the student’s knowledge of the topic in a subjective manner. Scores must be recorded on the attendance form provided.

1. **The lathe is used to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **The tool used for finish turning spindle work is called\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. **Soft woods are easier to turn than hard woods. True False**
4. **The lathe is only used to make things round. True False**
5. **The part of the turning tool that rubs on the wood behind the cut is\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
6. **The two primary shapes cut into spindles are\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
7. **To be worked on the lathe wood must first be cut and seasoned dry True False**
8. **List five things that can be made on the lathe\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
9. **The part of the lathe that holds the tool rest is called the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
10. **The lathe is one of the most dangerous machines in a woodshop True False**

**Cost per student for entire semester, including materials and supplies: $350**

**Invoices are due 10/31 for Fall and 2/28 for Spring.**

Thank you for providing your expertise to the students in our community!