

Brazosport College
MCHN 2345 - Advanced Machine Shop II
Syllabus

Instructor: Ben Waldrep

Office: M102B

Office Phone: 979-230-3590

benjamin.waldrep@brazosport.edu

Advanced Machine Shop II is an advanced course, teaching the expanded use of hand tools, measurement with precision measuring tools, layout, and advanced set ups and operation of the vertical mill.

Textbook: Required - Machine Shop Operations and Setups, 4th Edition, Lascoe/Nelson/Porter, American Technical Society, Chicago, 60637 "Required course materials are available at the Brazosport College bookstore, on campus or online at <http://www.brazosport.edu/bookstore>. A student of this institution is not under any obligation to purchase a textbook from the college bookstore. The same textbook is/may also be available from an independent retailer, including an online retailer."

STUDENT LEARNING OUTCOMES

Student will be highly proficient in taking precision measurements

Student will be able to make hand prints of parts

Students will make a given part, using multiple processes, to stated tolerances

Title IX Statement

Brazosport College faculty and staff are committed to supporting students and upholding the College District's non-discrimination policy. Under Title IX and Brazosport College's policy FFDA (Local), discrimination based on sex, gender, sexual orientation, gender identity, and gender expression is prohibited. If you experience an incident of discrimination, we encourage you to report it. While you may talk to a faculty or staff member at BC, please understand that they are "Responsible Employees" and must report what you tell them to college officials. You can also contact the Title IX Coordinators directly by using the contact information below. Additional information is found on the Sexual Misconduct webpage at www.brazosport.edu/sexualmisconduct.

Kelli Forde Spiers, Director, Student Life and Title IX Coordinator
Office J-117D; 979-230-3355; kelli.fordespiers@brazosport.edu

Victoria Young, HR Coordinator and Deputy Title IX Coordinator
Office C-114; 979-230-3303; victoria.young@brazosport.edu

ATTENDANCE AND WITHDRAWAL POLICY

Your attendance is required to achieve success in this course. It is the student's responsibility to attend class on time and prepared. It is the student's responsibility for add/ drop withdraws from course. See Current Brazosport College Student Guide for information. A student in the Machine Tools/Millwright program will be allowed no more than three unexcused absences. If no attempt is made to contact the instructor, whether by phone, or electronic mediums, the absence will be considered in the same light as an employer and will be considered unexcused. After the third absence, the student will be withdrawn from the course.

Campus Closure Statement

Brazosport College is committed to the health and safety of all students, staff, and faculty and adheres to all federal and state guidelines. The College intends to stay open for the duration of the semester, and provide access to classes and support services on campus in the safest way possible. The College will also comply with lawful orders given by applicable authorities, including the Governor of Texas, up to and including campus closure. It is possible that on campus activities may be moved online and/or postpone if such orders are given.

Student Conduct Statement:

Students are expected to be aware of and follow the Brazosport College Student Code of Conduct. Students have violated the Code if they “fail to comply with any lawful directions, verbal or written, of any official at BC.” Lawful directions include precautions and requirements taken to prevent the spread of COVID-19 at Brazosport College. Students who do not follow safety requirements, including the wearing of a mask, may be removed from class by their instructor and referred to the Dean of Student Services.

Academic Honesty:

Brazosport College assumes that students eligible to perform on the college level are familiar with the ordinary rules governing proper conduct including academic honesty. The principle of academic honesty is that all work presented by you is yours alone. Academic dishonesty including, but not limited to, cheating, plagiarism, and collusion shall be treated appropriately. Please refer to the Brazosport College Student Guide for more information. This is available online at <http://www.brazosport.edu>.

Academic dishonesty violates both the policies of this course and the Student Code of Conduct. In this class, any occurrence of academic dishonesty will be referred to the Dean of Student Services for prompt adjudication, and may, at a minimum, result in in **Zero on assignment, with no option to make up**. Sanctions may be imposed beyond your grade in this course by the Dean of Student Services.

Regarding Students with Disabilities:

Brazosport College is committed to providing equal education opportunities to every student. BC offers services for individuals with special needs and capabilities including counseling, tutoring, equipment, and software to assist students with special needs. For student to receive any accommodation, documentation must be completed in the Office of Disability Services. Please contact Phil Robertson, Special Populations Counselor at 979-230-3236 for further information.



Get the information you need – when you need it. Click <http://geni.us/BRAZO> to install **BC Connect** on your mobile device to receive reminders, explore careers, map your educational plan, be in the know about events, find out about scholarships, achieve your goals and much more.

Dates:

Labor Day – September 7, 2020

Last Day to Withdraw – November 2, 2020

Final Exam – December 8, 2020

MCHN 2345 – Advanced Machine Shop II Schedule

Class 1 Course Overview/Safety Pledge

Class 2 Project Discussion

Class 3 Set-up

Class 4 Set-up

Class 5 Set-up Lab

Class 6 Fixtures

Class 7 Fixtures

Class 8 Fixtures Lab

SPRING BREAK or THANKSGIVING Holidays

Class 9 Machining – Coordinate Milling

Class 10 Machining – Coordinate Milling Lab

Class 11 Machining

Class 12 Machining

Class 13 Machining

Class 14 Machining/Shop Clean-up

Class 15 Review for Final

Class 16 Final Exam

Advanced II Project

- Fixture Squaring
- Boring Head
- Mill Maintenance

GRADE DETERMINATION:

Homework – 20%

Exams – 20%

Projects – 20%

Labs – 20%

Final – 20%

GRADING SCALE:

A = 100-90

B = 89-80

C = 79-70

D = 69-60

F = Below 60