

Course Type: Lecture/Lab

Arkansas State University-Newport's mission is to provide an accessible, affordable, quality education that transforms the lives of our students, enriches our communities, and strengthens the regional economy.

ADVM1123: Materials, Measurement, and Safety

Catalog Description: This course is designed to introduce the student to the basics that are needed to develop the skills to operate Manual and CNC controlled equipment. Students will explore: Safety, Basic materials, simple metallurgy, Published resources, Minor process adjustments, and Beginning quality control, shop math, and precision measurement.

Instructor Name: Office: Office Phone: Email:	
Office Hours:	
Department Information Course Department: Academic Department: Academic Coordinator: Associate Dean: Associate Dean Contact Number:	Email:
Materials: Required and Optional Required Text:	

Institutional Learning Outcomes

Upon graduating from ASU-Newport with any Associate Degree, a student will be proficient in the following:

ILO1: Communication

Goal: Students will express ideas, knowledge, and concepts in a clear and concise manner.

- a) Written
- b) Verbal

Optional Texts:

Required Material:

Optional Materials:

c) Interpersonal

ILO2: Reasoning

Goal: Students will apply reasoning skills in a variety of environments, which demonstrate problem-solving and applied knowledge.

- a) Explore
- b) Locate
- c) Interpret
- d) Evaluate
- e) Apply



ILO3: Responsibility

Goal: Students will participate in service activities that instill in them a sense of social responsibility.

- a) Civio
- b) Academic
- c) Financial

Institutional Grading Scale

Grading Scale:

- A: 90-100
- B: 80-89
- C: 70-79
- D: 60-69
- F: 0-59
- S: Satisfactory
- U: Unsatisfactory

Americans with Disabilities Act Compliance

In order to obtain appropriate disability related accommodations and services to which they are entitled, students with documented disabilities should voluntarily and confidentially provide the Office of Disability Services (870-512-7838 or disabilityservices@asun.edu) with appropriate medical documentation regarding the nature and extent of their disability, make their needs known to this Office and follow established procedures for acquiring needed services and accommodations in the classroom or online.

Information Technology Services

If you experience any problems or issues with Canvas, MyCampus, or other equipment, please contact ITS at 870-512-7783 or http://its.asun.edu. Canvas also has a 24/7 live chat. This is a valuable resource for those late-night tests or assignments that just do not seem to work properly.

ASU-Newport provides a number of different services to assist students in areas that directly impact their academic success. The following direct websites will help you get in touch with those services that may be needed during your time as an ASUN student:

Academic Support Center: http://academicsupport.asun.edu

Financial Aid: http://financialaid.asun.edu
Career Pathways: http://pathways.asun.edu
University Police: http://cpd.asun.edu

Information Technology Services: 512-7783 or its@asun.edu
Disability Services: http://www.asun.edu/disability_services

Admissions: http://admissions.asun.edu

Academic Dishonesty (as stated in the Student Handbook)

ASU-Newport enthusiastically promotes academic integrity and professional ethics among all members of the ASU-Newport academic community. Violations of this policy are considered serious misconduct and may result in disciplinary action and severe penalties. Cheating in any form-including plagiarism, turning in assignments prepared by others, unauthorized possession of exams - may result in the student being dropped from the class with an "F" and/or being suspended from the College. Students who feel they have been unfairly accused of cheating may appeal to the Associate Dean of General Education.

Campus Safety Information

What to know and do to be prepared for emergencies at ASUN:

- Opt-in to receive ASUN's School Messenger notifications regarding weather closings, emergencies, and other important notifications. All currently enrolled students will receive an email within the first two weeks of the semester prompting them to Opt-in to the messaging system.
- Know the safe evacuation route from each of your classrooms. Emergency evacuation routes are posted in on-campus classrooms.
- Listen for and follow instructions from your instructor or other designated authorities.
- For additional emergency information see the ASUN Emergency Response Guide in the Portal under "More" then select "Department of Safety".
- Know the emergency phone number for ASUN Campus Police or dial 911.



- Report suspicious activities and objects found on campus.
- Keep your permanent address and emergency contact information current in My Campus.

Inclement Weather

In the event of inclement weather, class cancelation is left to the discretion of the Chancellor. You will be notified of class cancelation on the university website, through news media, and through our school messaging system.

Children in the Classroom:

ASUN classroom policy requires that the learning environment should be free of distraction in order to provide the highest learning opportunity for all students. In this light, students should not bring children to the classroom. If you must bring a child on campus, please have your child properly supervised in the public gathering areas.

Course Learning Outcomes:

Upon successful completion of this course, students will be able to:

Course Learning Outcomes	Assessment
Course Learning Outcomes	Assessment
Decree Assault	1. Students will understand the need for manner work atting
Demonstrate safe work	1. Students will understand the need for proper work attire.
practices	Students will identify causes of accidents and the impact of accident costs.
	3. Students will understand and demonstrate proper use of Personal
	Protective Equipment.
	4. Students will demonstrate proper material handling procedures.
	 Students will display safe work practices.
	6. Students will demonstrate the use and care of personal protective
	equipment (PPE).
	7. Students will define safe work procedures to use around machining
	equipment.
Demonstrate hand tool selection	Students will recognize and identify the basic hand tools and their
and use	proper uses in the machine shop.
and use	2. Students will visually inspect hand tools to determine if they are safe
	to use.
	3. Students will validate proper tool selection for the appropriate task
	4. Students will demonstrate the Safe use of hand tools.
D	Students will identify formulas tables and charts needed to make
Demonstrate the ability to	calculations.
perform basic shop math and	2. Students will be able to calculate basic math problems quickly
use resources	3. Students will investigate uses of reference materials
	4. Students will identify resources needed for machining
Determine the relevance of the	Students will develop a basic understanding of materials
properties of Materials and	2. Students will develop a basic understanding of metallurgy
Metallurgy in the machining	
process	1 0 1 1 11 11 11 11 11 11 11
Demonstrate the basic	1. Students will identify formulas tables and charts needed to make
knowledge of machining	calculations.
equipment and preventative	 Students will understand the needs and reasons for preventative maintenance of equipment
maintenance needed.	3. Students will show ability to perform preventative maintenance plan
Demonstrate the ability to	Students will identify all types of measuring equipment
1	2. Students will practice the use of precision measurement equipment
perform precision	3. Students will develop an understanding of process changes that can
measurements, process	increase the process efficiency
adjustments, and quality	4. Students will develop and evaluate inspection plans
checks.	

Course Policies and Procedures



Academic Calendar

Disclaimer

This syllabus and all documents associated with the syllabus are considered a contract between the student and the instructor. Students are expected to carefully read and review the syllabus and all associated documents in order to be familiar with course expectations and policies. This syllabus is subject to change at the discretion of the instructor, who will inform students of any changes. Students are responsible for keeping up with any changes.