Aeronautical Non-Destructive Inspection, Leadership Management, Metrology Sciences for Aerospace Manufacturing Certificates 23-24

Aeronautical Non-Destructive Inspection		
Term 1 (Semester: Maximum 19 units, 15 units recommended)	Units	
ANDI 110, Non Destructive Inspection: Visual Inspection, Liquid Penetrant, and Magnetic Particle	5	
ANDI 115, Non Destructive Inspection: Eddy Current	3.5	
Term 2 (Semester: Maximum 19 units, 15 units recommended)	Units	
ANDI 120, Non Destructive Inspection: Ultrasound Inspection	3.5	
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Graduate

This program is designed to introduce students to the principles of nondestructive inspection (NDI) and nondestructive testing (NDI). Nondestructive testing (NDI) is a testing and analysis technique used by the aerospace industry to evaluate the properties of a material, component, and structure for characteristic differences without causing damage to the aircraft structures. Inspection methods covered in this course are Eddy Current and Ultrasonic inspection. Classroom lecture and hands-on

Aerospace Leadership and Management

practice with NDI testing equipment, processes, and procedures.

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Term 1 (Semester: Maximum 19 units, 15 units	recommended)	Units
ALM 110, Leadership and Administration		3
ALM 115, Manufacturing Processes and Controls		3
ALM 120, Lean Manufacturing		3
ALM 130, Total Quality Management		3
	Total	12
Graduate		

Students who complete the certificate have enhanced employability in the field of aerospace technology. This program helps current and aspiring leaders learn to promote positive change, make data-informed decisions, lead by example, and solve complex problems with sustainable solutions. The certificate will provide students with leadership strategies and understanding / management of aerospace budgets and reporting. This course will provide students with process improvement strategies and required skills to become a successful in aerospace management

Metrology Sciences for Aerospace Manufacturing		
Term 1 (Semester: Maximum 19 units, 15 units	recommended)	Units
MSAM 110, Fundamentals of Dimensional Metrology		4
MSAM 115, Metrology Systems and Application		6
	Total	10
Graduate		

This program is designed to familiarize students with the standards and practices of metrology used in the aerospace manufacturing industries, which includes hands-on training and familiarization with metrology tooling, equipment, and systems. Jobs associated with this certificate are Tool & Die Maker, Machinist, Metrology Tech, Dimension Control Tech, Tool Design, and Tool Engineer.

Other Requirements:

- · Minimum grade of "C" required on each course
- Refer to catalog or online website for course listings and descriptions
- Maximum of 6 pass/no-pass units accepted for Certificates

• Residency: Minimum of 12 units completed at AVC with a minimum of 9 of those units completed from the certificate/major. (credit earned by examination will not be included in these 12 units) Title 5, Section 54000:http://ccr.oal.ca.gov Requirements for Two or More Associate Degrees: To be eligible for multiple associate degrees, a student must have completed all of the graduation requirements for each degree.

Transfer: Students planning to continue studies at a four-year college or university after AVC should visit the Transfer Resource Center or the Counseling Center and consult with a counselor as soon as possible to develop a plan of studies. Additional preparation for the major information on official transfer articulation agreements from AVC to many CSU/UC campuses can be found at the following Web site: www.assist.org

The "Catalog Rights Policy" sets forth the criteria used for determining the degree requirements under which students may graduate. Please refer to the AVC Catalog for a detailed description or consult with a counselor.

Advisory: A condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program.

Prerequisite: A condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program. Prerequisites are enforced and a student will be blocked from enrolling or involuntarily dropped after enrolling if the student does not meet the stated prerequisite. A student must complete a course prerequisite with a satisfactory grade of A, B, C or P (pass).

Corequisite: A condition of enrollment consisting of a course that a student is required to simultaneously take in order to enroll in another course. Corequisites are enforced and a student will be blocked from enrolling if the student does not meet the stated corequisite.