



Non Destructive Testing

Student Learning Outcomes

- 1 Communication- The student will demonstrate the ability to communicate effectively using written and/or oral communication.
- 2 Information Literacy- The student will recognize when information is needed and have the ability to locate, evaluate, and use effectively the needed information.
- 3 Problem Solving- The student will demonstrate the ability to analyze information and solve problems.
- 4 Workplace Skills - Demonstrates a mastery of workplace skills/soft skills, exhibits initiative, adapts to varied situations

Program Outcomes

- 1 Demonstrate the Level I standards identified by the American Society of Non Destructive Testing for the following methods: Penetrant Inspection, Visual Magnetic Particle, Radiographic, Eddy Current and Ultrasonic
- 2 Demonstrate the Level II standards identified by the American Society of Non Destructive Testing for the following methods: Penetrant Inspection, Visual Magnetic Particle, Radiographic, Eddy Current and Ultrasonic
- 3 Integrate and apply aerospace structures and composite material fabrication concepts into the NDT curriculum
- 4 Apply NDT concepts to the Aerospace Assemblies

Fall

Course #	Course Title	Credits	Function
NDT 100	Penetrant Inspection	3	Technical Studies
NDT 101	Magnetic Particle Testing	3	Technical Studies
NDT 106	Formulations and Calculations	2	Technical Studies
NDT 110	Eddy Current Level I	3	Technical Studies
NDT 111	Eddy Current Level II	3	Technical Studies
NDT 112	Ultrasonic Testing Method Level I	3	Technical Studies
NDT 114	Visual Inspection	2	Technical Studies

Spring

Course #	Course Title	Credits	Function
NDT 102	Radiation Safety	3	Technical Studies
NDT 103	Radiographic Testing Level II	3	Technical Studies
NDT 107	Radiographic Testing Level I	3	Technical Studies
NDT 113	Ultrasonic Testing Method Level II	3	Technical Studies
NDT 123	Advanced Ultrasonic Testing Methods	5	Technical Studies

Fall

Course #	Course Title	Credits	Function
	Communication Elective *	3	General Studies
	Humanities Elective*	3	General Studies
	Social Science Elective*	3	General Studies
MTH	Math Elective*	3	General Studies

Spring

Course #	Course Title	Credits	Function
AVC 102	Precision Instruments	1	Technical Studies
AVC 110	Safety/OSHA 10	1	Technical Studies
CFT 101	Introduction to Composites	2	Technical Studies
ENG 101	Composition I*	3	General Studies
PHS 110	Physical Science*	5	General Studies

* [Kansas Systemwide General Education](#)

Technical Certificate, Non Destructive Testing**Total Credits 36****Fall**

Course #	Course Title	Credits	Function
NDT 100	Penetrant Inspection	3	Technical Studies
NDT 101	Magnetic Particle Testing	3	Technical Studies
NDT 106	Formulations and Calculations	2	Technical Studies
NDT 110	Eddy Current Level I	3	Technical Studies
NDT 111	Eddy Current Level II	3	Technical Studies
NDT 112	Ultrasonic Testing Method Level I	3	Technical Studies
NDT 114	Visual Inspection	2	Technical Studies

Spring

Course #	Course Title	Credits	Function
NDT 102	Radiation Safety	3	Technical Studies
NDT 103	Radiographic Testing Level II	3	Technical Studies
NDT 107	Radiographic Testing Level I	3	Technical Studies
NDT 113	Ultrasonic Testing Method Level II	3	Technical Studies
NDT 123	Advanced Ultrasonic Testing Methods	5	Technical Studies

Certificate of Completion, Ultrasonic Technician**Total Credits 13**

Course #	Course Title	Credits	Function
NDT 106	Formulations and Calculations	2	Technical Studies
NDT 112	Ultrasonic Testing Method Level I	3	Technical Studies
NDT 113	Ultrasonic Testing Method Level II	3	Technical Studies
NDT 123	Advanced Ultrasonic Testing Methods	5	Technical Studies

Certificate of Completion, Radiography Technician**Total Credits 11**

Course #	Course Title	Credits	Function
NDT 102	Radiation Safety	3	Technical Studies
NDT 103	Radiographic Testing Level II	3	Technical Studies
NDT 106	Formulations and Calculations	2	Technical Studies
NDT 107	Radiographic Testing Level I	3	Technical Studies

Certificate of Completion, Eddy Current Technician**Total Credits 8**

Course #	Course Title	Credits	Function
NDT 106	Formulations and Calculations	2	Technical Studies
NDT 110	Eddy Current Level I	3	Technical Studies
NDT 111	Eddy Current Level II	3	Technical Studies

Certificate of Completion, Magnetic Particle Technician**Total Credits 7**

Course #	Course Title	Credits	Function
NDT 101	Magnetic Particle Testing	3	Technical Studies
NDT 106	Formulations and Calculations	2	Technical Studies
NDT 114	Visual Inspection	2	Technical Studies

Certificate of Completion, Penetrant Technician**Total Credits 5**

Course #	Course Title	Credits	Function
NDT 100	Penetrant Inspection	3	Technical Studies
NDT 114	Visual Inspection	2	Technical Studies