FOUR RIVERS CAREER CENTER

Curriculum at a Glance

Program: **Engineering Design and Development**

Unit	Topic	Approx Timeline
Project Management	● The EDD Design Process and Project Management Documenting the Engineering Design Process ● Teams, Timelines, and Contacting Experts ● Project Evaluations and Classroom Management ● Intellectual Property	Quarter 1
Research	● Identification and Justification of the Problem ● Documentation and Analysis of Prior Solution Attempts ● Presentation and Justification of Solution Requirements	Quarter 1
Design	● Design Concept Generation, Analysis, and Selection ● Application of STEM Principles and Practices ● Consideration of Design Viability	Quarter 1
Prototype and Test	● Construction of a Testable Prototype ● Prototype Testing and Data Collection Plan ● Testing, Data Collection, and Analysis	Quarter 2
Evaluation of Project and Process	● Documentation of External Evaluation ● Reflection on the Design Project ● Presentation of Designer's Recommendations	Quarter 2
Reflection and Presenting the Design Process	● Presentation of the Project and Project Portfolio ● Writing Like an Engineer	Quarter 2