

# National Science Foundation Grant Project

ATE Project #: 1902225, “Scaling Elements of a Competency-based/Hybrid Instructional Model into Advanced Manufacturing Courses” is a 3 year project, awarded 6/1/19. NSCC (located in Archbold, OH) trains partner colleges across the country, how to improve the effectiveness and access of their lecture/lab technical courses, by scaling (implementing) elements of successful competency-based/hybrid instructional models, into their courses.

Four partner colleges (listed below) have identified one or two faculty that the project works with to implement one of the elements into one of their courses and measure the impact of the change. These elements are listed in the graphic below (around the outside of the circle), which have all been implemented at NSCC’s Competency-based/hybrid model in their Industrial Technologies program.

In years 2 & 3 of the project, faculty professional development workshops will be offered to faculty at colleges in each of the four states. These workshops will focus on improving courses using these elements, as well as to develop the faculty skillset to develop and utilize the elements effectively. If you have any questions, or you want more information about this project, reach out to the project PI, Tom Wylie at twylie@northweststate.edu.

**Project Data:**  
 Colleges receiving Professional Development: **10**  
  
 Faculty receiving Professional Development: **47**  
  
 Mentoring session with other college Faculty: **18**  
  
 Curriculum changes implemented thus far: **7**



## Four College Partners in AR, MI, NC & OH



**College Partner:**  
Henry Ford CC in Dearborn, MI  
**Faculty:**  
Glenn Wisniewski  
**Element:** Created a series Of learning objects (videos) to teach electrical and pneumatic print reading in a Systems Integration course



**College Partner:**  
South Arkansas CC in El Dorado, AR  
**Faculty:**  
Dave Carty  
**Element:** Remixing OER for a PDF Object to be used in an Instrumentation Course



**College Partner:**  
Robeson County CC in Lumberton, NC  
**Faculty:**  
Heath Worriax  
**Element:** OER & VMs Implemented PLC OER and Utilizing Virtual Machines for PLC software access



**College Partner:**  
Northwest State CC in Archbold, OH  
**Faculty:**  
Josh Verhoff & Jim Boone  
**Element:** OER & VMs Implemented for Fluid Power and Electrical Prints and Troubleshooting.