**Reedley College Program Review Recommendations\* Annual Progress Report**

**(\*“Recommendation” changed to “Goals” beginning Cycle Three)**

**Program: Mechanized Agriculture Year: 2011-2012**

**Contact:**

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| **Recommendation\***  (as appropriate, identify the campus where the recommendation applies) | **Proposed Timeline** | **Activities/Facilities/ Curriculum/Equipment Necessary to Accomplish Recommendation\*** | **Resources Needed, Include Estimate Costs** | **Status** | **Outcome** |
| Update instructional equipment to reflect current industry trends.  (pg 13-14) | Ongoing | 1. Electronic engines  2. Shop computer stations  3. Hydraulic diagnostic equipment  4. Engine diagnostic equipment,  5. Electrical diagnostic tools and equipment  6. Mobile equipment for hands on training. Telehandler, Challenger tractor, Motor Grader  7. Electronically controlled transmissions  8. Differentials for training aids  9. Anti-lock brake training aid | 1. 4 engines @ $30,000 each  2. 4 stations @ $4,000 each  3.Hydraulic/Hydrostatic training aids - $60,000  Hydraulic line contamination control unit - $3000  4. Engine diagnostic tooling - $12,000  5. 10 Fluke multimeters - $4,000  6. Telehandler - $35,000  Used Challenger - $40,000  Used Grader – $65,000  7. 6 electronic transmissions - $30,000  8. 5 Differentials - $10,000  9. Antilock Brake trainer - $12,000 | **Ongoing** | **2 electronic engines have been acquired from Quinn Company.**  **Fluke Multi-meters were purchased in the Fall of 2011.**  **2 Differential training aids have been acquired and more are being looked at for acquisition.** |
| 2. Pursue and complete program accreditation through the AED, Associated Equipment Distributors  (pgs 25-26) | This process has already begun and can be completed by the spring of 2011. | Curricular updates, Student Learning Objectives, specific course objectives, and specific training aids and materials to reflect these objectives. Requirement of electronically controlled hydrostatic driver training unit. | Purchase of electronically controlled hydrostatic drive training unit to complete accreditation requirement - $30,000 | **COMPLETED** | **In the fall of 2011 the Mechanized Ag Program received accreditation through AED.** |
| 3. Create Pathway for Agriculture Equipment Technician  ( pgs 13, 24-25) | To begin process in summer of 2010 and complete by fall 2012. | Development of curriculum, development of industry partnerships, acquisition of agriculture equipment, specifically agriculture wheeled tractors and tooling. | Purchase and acquisition of up to 12 used agricultural wheel tractors – $40,000. Purchase and acquisition of various implements, spray rigs and equipment - $20,000 | **Ongoing** | **The purchase of 4 ag tractors has been accomplished.**  **Still looking for funding to purchase other various ag equipment.** |
| 4.Expand shop facility  (pg 13) | Explore funding options and complete by 2015. | Construction of covered awning with bridge crane. Relocating portable fuel station. | Estimated cost of $200,000 to complete building addition. Relocation of fuel tanks - $6,000 | **Ongoing** | **The Relocation of fuel storage tanks has been accomplished.** |
| 5.Expand storage facilities  (pg 13) | To be completed by fall 2013. | Acquisition of additional storage units and permanent covered structure to house tractors, engines, transmissions, differentials, and other components | Construction of shade structure to keep equipment out of weather – $40,000 | **Ongoing** | **Additional Storage unit to be purchased using C6 grant funds in the fall semester.** |

1. Provide any additional changes made to the program that were not a part of your program review report.

We have been fortunate to receive several electronic engines from Quinn Company that are in various stages of being repaired and updated to include in our regular instructional program. These engines are normally very expensive which has prohibited us from getting any current engines that are typically found on late model equipment. We are fortunate to have industry partners who recognize our situation and can provide hardware periodically as it becomes available. We recently received a new skid steer loader with help from Quinn Company. This loader will be used to train students on electronically controlled hydrostatic drive systems and calibrations.

1. List in detail any new program needs and a brief rational for this need.

The Mechanized Agriculture Program is in the process of expanding and shifting our curriculum to include more instructional units focused on the repair and service of agricultural equipment. While our program has always been titled Mechanized Ag, our instructional offering is based on a systems approach, meaning we teach engine, transmission, fuel, electrical and hydraulic systems as they apply to construction, agricultural and on-highway equipment. The downturn in the economy has dramatically affected the construction and on-highway segments of the repair business while the agriculture segment has remained fairly strong and steady in terms of hiring technicians. It is clear that there is and will be a continuing need for technicians trained with specific skills that relate to agricultural tractors and equipment.

1. Summarize the progress your program has made this year on SLO assessment.

SLO Assessment has proven to be an eye opening experience for instructors in that we are generally finding that our students are not always learning a level we believe acceptable and that our assessment methods need revision. At this point in time we have assessed SLO’s in all MAG classes; MAG 20, MAG 21, MAG 30 and MAG 31. In terms of progress, efforts have been made to provide more hands-on lab practical testing that better simulates workplace skill expectations. We are confident as instructors that there will be real improvements over the previous semester’s lab practical testing results. We will now begin to fine-tune not only our testing procedures but also the individual lessons and competencies where we find students falling short of expectations.

1. Provide any additional information that your program would like to share.

Our program enrollment continues to remain strong and we are seeing increased hiring of our student graduates. We are making steady and strong progress on improving the assessment and evaluations of SLO’s and are seeing benefits from the changes implemented so far. Strong efforts are being made to increase the number of students earning certificates for the work performed in the program.