

Arizona Sun Corridor - Get Into Energy Consortium  
 TAACCCT Round 2 Grant (TC-23759-12-60-A-4)  
 Third Party Review of Curriculum and Related Educational Resources

College	Northland Pioneer
Course Number	MET100
Course Title	Introduction to Mechatronics
Item Description	New course Form
Reviewed by	BP
Review Date(s)	March 2016

Course Number	Yes
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Course Title	Yes
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Course Description	Yes
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The structure seems to present two very separate focus areas, one being mechatronics and the course is named, then seems to shoe horn in the Energy industry fundamentals.

Pre-requisites	None
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Co Requisites	Yes	Workforce skills
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Student learning outcomes and competencies are clearly identified	Yes
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While the outcomes are listed and defined well, the course has a mixed focus. The course title is clearly intended to focus on mechatronics. It appears the original course had the Energy elements pushed into the middle of the course. This is confusing to review and seems it would confuse students.

Required and recommended texts and other materials are clearly identified	No	Only reference is to DVD's available in the library. No indication of where they fit or titles or other reference is provided.
Description of strategies for student success or available assistance	No	Nothing included in materials
Description of how course prepares student for a certificate or degree	Yes	Introduction to foundation knowledge and skills
Description of how course/item is relevant or applicable to occupation or industry	Yes	Introduction to foundation knowledge and skills
Description of assessments, evaluation, exams and grading process	No	Only identifies that assessments will be present. There is no information on grading, how elements will be evaluated or any guidance for students on how performance will be measured.
Evidence of industry input, review and approval process	No	There is mention of NCCER in one outcome, and NCRC testing in one, but no mention of CEWD or any review process
Evidence of college review and approval process	No	This form does not show a completed date as others from this institution do.

For items not directly related to a course, any evidence of quality control process

NA

The overall quality is a sufficient representation of college and industry standards

No

Very incomplete. No syllabus materials provided. Needs work.

Other notes

There appears to be overlap in this course content with IMO 208. This reviewer finds difficulty understanding why these two courses with similar content are one at the front end of the program and the other far later in the course sequence.

The content feels jumbled as if it is attempting to address two different areas. Content starts out in the Mechatronics focus, then shifts to energy industry fundamentals, and later returns to mechatronics and manufacturing. Seems that this could be better designed as two separate courses addressing each area separately.