



## Iowa Advanced Manufacturing Consortium Curriculum Review Rubric

**Signature Program:** Robotics/Automated Systems Technology

**College:** Iowa Western Community College

**Reviewer Name:** Dan Laroche

**Reviewer Signature:**

**Date:** 5-13-16

### Review Definitions & Instructions

**Exceptional:** Review component is a “best practice” and represents a model for replication.

**Effective:** Review component is complete and effective.

**Opportunity to Improve:** Review component is not complete and/or could be improved.

**N/A:** Review component not reflected or addressed in material.

**Comments and Recommendations:** Remarks should be reflective of the subjects covered in that section. If any review component is marked as an opportunity for improvement, a comment or recommendation must be provided in reference to the rating.



Program Introduction & Overview	Exceptional	Effective	Opportunity to Improve	N/A	Comments & Recommendations
- Program Pathway Curriculum Map				N/A	
1. Priority 1: Develop stacked and latticed pathway in signature program providing a clear and logical path to completion	X				Good work connecting the HS PLTW program to lead into IWCC degree programs in both the Electronic Engineering as well as Robotics/Automated Systems.
2. Priority 1, Strategy 1: Program outcomes aligned to relevant industry certifications	X				Many of the outcomes are aligned with the Fanuc certification. Recommend working towards offering Fanuc certification in addition to current robotics degree through Workforce Development or a similar agency.
3. Priority 1, Strategy 1: Instructors certified per industry standards	X				Once teacher is FANUC certified.
4. Priority 1, Strategy 1: NCRC incorporated into signature program curriculum				X	Not mentioned
5. Priority 1, Strategy 2: Noncredit offering aligned to credit programming		X			IWCC is developing a short term robotics training that will transfer into credit towards the robotics program.
6. Priority 2, Strategy 4: Uofl online BAS incorporated into program pathway				X	Not mentioned

Course Information: Syllabi & Instructional Materials	Exceptional	Effective	Opportunity to Improve	N/A	Comments & Recommendations
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1. Priority 1, Strategy 1: Course competencies are aligned to relevant industry certifications	X				The structure and competencies of classes are relevant to several industrial certifications
2. Priority 1, Strategy 1: Instructional materials are reflect current industry standards	X				IWCC new robotics lab offers state of the art materials to teach industrial robotics.
3. Priority 2, Strategy 5: Online and blended delivery options for courses as appropriate	X				Multiple blended learning options are available throughout the program.



4. Priority 2, Strategy 5: Incorporate simulators and state-of-the-art technology into curriculum	X				Fanuc Robotics software and hardware are available to teach the robotics curriculum.
5. Priority 2, Strategy 5: Incorporate online manufacturing training options as appropriate to supplement hands-on training	X				Many classes are blending learning with online training to supplement the hands on training.

- Statement of Grant Impact	Exceptional	Effective	Opportunity to Improve	N/A	Comments & Recommendations
1. Priority 1, Strategy 3: Evidence of strengthened credit for prior learning options within program	X				IWCC worked with local industry to develop the robotics program.
2. Priority 2, Strategy 1: Digital literacy incorporated into curriculum	X				IWCC offers a Computers in Industry class that is very well rounded. That coupled with the online learning involved, means students should have a good digital literacy at the completion of the program.
3. Priority 2, Strategy 1: Evidence of plan for remediation and contextualized learning	X				Many of the classes are presented in an online format which is reinforced with the hands on labs.
4. Priority 3, Strategy 2: Evidence of intensive advising incorporated into program		X			The program pathway has links to both HS and 4 year schools which indicated a certain level of advising. Recommend adding a career coach or advisor to assist the students in the program.
5. Priority 3, Strategy 1: Evidence of industry input/standards in program design and curricular components	X				IWCC worked directly with Acieta LLC in the development of the program.

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