Curriculum Review Rubric

Program/Materials Reviewed: OCC_CAM161_PLA AnswerKey

College: Owens Community College

Reviewed by: Robert E. Speckert, Professor Emeritus, Miami University

Date: May 31, 2018

Review Scale definitions:
Excellent: Review component is excellent, represents a "promising practice", and is a model for replication.

Very good: Review component is complete and can be replicated.

Good: Review component is adequate but represents opportunities for improvement

Ineffective: Review component is weak and in need of significant improvement.

No or insufficient evidence: Review component was missing information and not able to be assessed.

Instructional Material Assessment including PLA:

Instructional Materials and Lab Resources	Excellent	Very Good	Good	Ineffective	No or Insufficient Evidence
1. Align with stated course or unit learning objectives.		X			
2. Meet/reflect current industry practices and standards.		X			
3. Provide options for multiple learning styles.			X		
4. Instructional materials are cited properly.		X			
5. There is evidence of materials and resources that support innovative learning techniques.			X		
Comments or Recommendations Specific to each section rated: 1. Stated Goal:. *Studies the application of machines to the production of products for use in industry. Students will learn to use the lathe, mill, grinder,*					

drill press, and a variety of hand tools to manufacture products and other machine components. Contains demonstrations, lab exercises and final project. This is a basic level coverage of machining. Assessment focuses on lathes (turning) and mills (milling). There is no assessment of grinders (grinding), very little assessment of drill presses (drilling), and no assessment of hand tools all of which are listed as course outcomes.

Robert E. Speckert

Professor Emeritus, Miami University
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Education:

1975-1980 University of Cincinnati. Master of Business Administration Degree, Quantitative Analysis major.
1973-1975 Miami University, Oxford, OH. Bachelor of Science degree in Applied Science, Engineering Technology major.
1971-1973 Cincinnati Technical College. Associate of Applied Science degree, Engineering Technology major.

Certifications:

- Certified Manufacturing Engineer (Society of Manufacturing Engineers)
- Academic Jonah (Avraham Y. Goldratt Institute)

Additional Training: (some activities)

- Train the Trainer in Nano Technology, Penn State University, August 2009
- Nano Technology, Penn State University, May 2009
- Nano Technology, January 2009, Las Vegas (sponsored by NSF)
- Geometric Dimensioning and Tolerancing, March 2-3, 2008, Detroit, Michigan.
- Lab View workshops, National Instruments, various dates.
- Lean Manufacturing, Fanuc Robots, Mason, OH February 2005
- Academic Jonah Training on Theory of Constraints, Avraham Y. Goldratt Institute's program on Theory of Constraints/Continuous Improvement, Summer 1992
- Quality in Daily Work, Procter and Gamble's (P&G) Total Quality Management program, Spring 1992
- Team Member Training, Procter and Gamble's (P&G) Continuous Improvement program, Summer 1992
- Executive Decision Making, Avraham Y. Goldratt Institute's program on Theory of Constraints/Total Quality Management, Fall 1991

Experience:

Jan. 1985 – Present: Miami University, 1601 University Blvd., Hamilton, OH 45011 (513-785-1810)
1985-1997: Associate Professor and Chair; 1997-2006: Professor and Chair; 2006-Present: Professor and Assistant Chair; 2013 Professor Emeritus
June 1975 - Jan 1985: Cincinnati Technical College - 1.5 years as Division Coordinator of Cooperative Education and Public Relations. 8.0 years as Instructor/Program coordinator for Electro-Mechanical Engineering Technology and Computer Integrated Manufacturing Technology. Spent 6 months at Cincinnati Milacron in customer training.
Sept. 1974 - Sept. 1975: Kenner Products, Cincinnati, OH. Computer Operator. I operated a Burrough's 3500 system processing a variety of business reports.
June 1973 - Sept. 1974: General Electric Company, Evendale, OH. Engineering Assistant.

Consulting and Seminars Presented: (partial list)

2017 – Consultant for Lorain County Community College. Developed a Manufacturing Foundations Curriculum and pathway.
2017 – Served as Subject Matter Expert/Consultant on CNC programming curriculum for Cincinnati State Technical and Community College
2005-present Educational Consultant for Ohio Department of Higher Education, TechPrep, and others on various projects including curriculum review, curriculum development, program assessment, and continuous improvement.
2010-present Consultant, TechPrep of Greater Cincinnati
2006-2017 Consultant, Ohio Board of Regents, Transfer and Articulation
2006 Consultant, University of Cincinnati—College of Applied Science, Spring and Fall 2006. I worked with the administration on assessment processes.
2006-2007 Consultant for Tipco Punch, Inc, in Fairfield assisting them with quality control issues.
2004 Assessment Consultant, University of Cincinnati—College of Applied Science.

Publications and Presentations: (selected works)

- "Developing an Assessment Plan to Meet TAC/ABET Criteria 1-8" at the Rose-Hulman Best Assessment Practices VII, February 26-28, 2006.
- "Developing a Meaningful Assessment and Continuous Improvement Plan", Best Assessment Processes VI, Rose Hulman, Terre Haute, IN, March 2004. Also presented in April 2005 at Best Assessment Processes VII by invitation.
- "Alternative Delivery of a Baccalaureate Degree in Engineering Technology", October 24, 2000—Co-Presenters: R Speckert, D. Hergert , and D. Bickerstaff
- "TQM: The Topics, Tools and Techniques for Your Classroom", - League for Innovation in Community Colleges conference - November 1993 - Co authors: R. Speckert, P. Cantonwine and J. Streb.
- "Teaching Automated Manufacturing: Beyond Concept to Implementation" - Society of Manufacturing Engineer's Conference - November, 1992: Co-Authors J. Streb, P, Cantonwine and R. Speckert
- "Teaching Computer Integrated Manufacturing in the Interdisciplinary Classroom" - League for Innovation in Community Colleges conference - October 1991 - Co authors: J. Streb, P. Cantonwine and R. Speckert
- "LINK-UP/BCX" - Manufacturing simulation software for Lathes and Mills (1984-1993)

Service: (Recent activity)

2017-present	Chaired, Search Committee, Electrical and Computer Engineering Technology
2015-2016	Chaired, Search Committee, Mechanical Engineering Technology, James A. Meyers Endowed Professorship
2015-2016	Chaired, Search Committee, Electro-Mechanical Engineering Technology Associate Professor position
2015-present	Served, Advisory Council, Cincinnati Public Schools Career Tech
2014-present	Served, Advisory Council, Butler Tech—Adult Programs
2012	Served, Search Committee, Mechanical Engineering Technology Associate Professor position
2010-2015	Chaired, SEAS Evaluation of Administrators Committee
2010-2015	Chaired, SEAS Grievance Appeals Board
2005	Chaired, Search Committee, Chair/Director of Nursing Department, Miami University
2004-2006	Judge, B.E.S.T Robotics, University of Cincinnati—College of Applied Science.
2003-Present	Judge, Senior Design Projects, University of Cincinnati—College of Applied Science, Mechanical Engineering Technology.
2002-Present	Advisory Council, Greater Cincinnati TechPrep Consortium
2002-present	Served, Advisory Council, Cincinnati State Technical and Community College, Electro-Mechanical Engineering Technology
2002-present	Served, Advisory Council, Northwest School, Electro-Mechanical program
2000-present	Served, Advisory Council, Hamilton High School, Engineering Design program

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