

**Eastern WV Community & Technical College  
Master Course Record**

<b>Course Prefix and Number: ELM 276</b>
<b>Course Title: Electromechanical Capstone</b>
<b>Recommended Transcript Title: Electromechanical Capstone</b>
<b>Date Approved/Revised: June 18, 2008; November 18, 2013</b>
<b>Credit Hours: 3</b> <b>Contact hours per week (Based on 15 week term):</b> <b>Lecture:</b> <b>Lab:</b>
<b>Prerequisite: Students must be enrolled in final semester and be eligible for graduation.</b> <b>Corequisite:</b> <b>Pre/Corequisite:</b>
<b>Grading Mode: Letter grade</b>
<b>Catalog Description: This capstone course is designed as an integrative experience incorporating the application of technical skills and knowledge and general education competencies. Through the design, development, documentation and presentation of a project the student will demonstrate a broad mastery of learning across the curriculum. The project will include simulations utilizing software virtualizations, and will require real world hands on simulations. The student will work closely with an advisor in designing and implementing the project.</b>
<b>Course Outcomes:</b> <ol style="list-style-type: none"> <li>1. Plan a project that utilizes knowledge and skills obtained in the ELM program.</li> <li>2. Develop schematics and diagrams as appropriate for the project.</li> <li>3. Construct and make the project operational.</li> <li>4. Write a formal report explaining the design, layout and operation of the project.</li> <li>5. Present and demonstrate the project to a group of evaluators chosen by the Academic Program Director for Industrial Technologies.</li> </ol>
<b>Implementation Cycle: Spring</b>
<b>Role in College Curriculum: (Check all that apply)</b> <input type="checkbox"/> <b>General Education Core (Specify category)</b> <input checked="" type="checkbox"/> <b>Technical Core: Wind Turbine Technology</b> <input type="checkbox"/> <b>Restricted Elective (Specify Program)</b> <input type="checkbox"/> <b>General Elective</b> <input type="checkbox"/> <b>Workforce Education</b> <input type="checkbox"/> <b>Other (Please specify)</b>
<b>Course Fee: Yes</b>
<b>Instructor's Qualifications: BS Engineering/Technology or related discipline and/or expertise and experience in the field.</b>
<b>Expanded Course Description:</b>

Course Number &amp; Title: ELM 276-Electromechanical Capstone

Date Prepared/Revised: 04/08/08; 11/18/13

Date Course Approved by LOT: 06/18/08; 11/18/13; 10/26/15

**This capstone course is designed as an integrative experience incorporating the application of technical skills and knowledge and general education competencies. Through the design, development, documentation and presentation of a project the student will demonstrate a broad mastery of learning across the curriculum. The project will include simulations utilizing software virtualizations, and will require real world hands on simulations. The student will work closely with an advisor in designing and implementing the project. This Capstone course will contain materials from NCCER Curriculum as well as PMMI certified training materials.**

Prepared by:

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Ward Malcolm, Dean for Career & Technical

11/18/13

Approved Per LOT Minutes: 11/18/13

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Dean, Academic and Student Services

Date