

# Program Review

## Executive Summary

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### **Mechatronics**

Majors Reviewed:

- *Building Automation Technology: Mechatronics Engineering Technology Concentration (BBX), B.S.*
- *Mechatronics Engineering Technology (MH), A.A.S.*

2013-2017



In order to meet the industry demand for Mechatronics Engineering Technology (MH) and Building Automation Technology: Mechatronics Engineering Technology Concentration (BBX) graduates, the Electrical department continues to prepare students with the hands-on and applied problem-solving skills that employers seek.

The department evaluates assessment data and utilizes advisory committee expertise to determine emerging curriculum opportunities in areas of mechatronics and related fields. The advisory committee has stated that the most useful mechatronic graduate is one who has strong hands-on and problem solving skills with sound fundamentals in electro-mechanical technologies.

Recommendations for continued success and improvement include the following:

- Consult with industry experts for guidance relating to possible equipment or software upgrades, which is important to maintaining the program's high technical education standards in the face of a quickly changing technical environment.
- Explore the viability of a stand-alone bachelor degree in mechatronics. Although some input has been garnered from students, faculty in other departments, and Electrical Advisory Committee members, further research is needed to determine how related associate-degree programs could matriculate into this type of degree.
- Investigate staffing needs to accommodate the growing enrollment in the MH and BBX degrees, especially with respect to future offerings of core mechatronics courses (MET220 - Mechanical Power Transmission Systems and MET230 - Mechatronic System Maintenance).

The growth and industry support of the mechatronics degrees has reinforced faculty efforts to establish these programs as an integral part of the Electrical department