

THE UNIVERSITY OF NORTH CAROLINA AT ASHEVILLE
FACULTY SENATE

Senate Document Number 10816S

Date of Senate Approval 05/05/16

Statement of Faculty Senate Action:

APC Document 91:

**Change the title of ECE 455 from Computer Control of Robots to Industrial Robotic Systems;
Change the course number of MAE 301 to MAE 201;
Change the course number of MAE 314 to MAE 214,
removing corequisite from 214;
Change the pre- and corequisites for ECE 211 and ECE 456**

Effective Date: Fall 2016

1. Delete: On page 138, the title of **ECE 455, Computer Control of Robots:**

455 Computer Control of Robots (3)

Add: On page, 138, in place of deleted entry:

455 Industrial Robotic Systems (3)

2. Delete: On page 139, the number of **MAE 301, Engineering Thermodynamics I:**

301 Engineering Thermodynamics I (3)

Add: On page, 139, in place of deleted entry:

201 Engineering Thermodynamics I (3)

3. Delete: On page 139, the entry for **MAE 314, Solid Mechanics:**

314 Solid Mechanics (3)

Concepts and theories of internal force, stress, strain and strength of structural element under static loading conditions. Constitutive behavior for linear elastic structures. Deflection and stress analysis procedures for bars, beams and shafts. Introduction to matrix analysis of structures. Prerequisites: grade of C- or better in MAE 206; MATH 291. Corequisite: MSE 201. Spring.

Add: On page, 139, in place of deleted entry:

214 Solid Mechanics (3)

Concepts and theories of internal force, stress, strain and strength of structural element under static loading conditions. Constitutive behavior for linear elastic structures. Deflection and stress analysis procedures for bars, beams and shafts. Introduction to matrix analysis of structures. Prerequisites: grade of C- or better in MAE 206; MATH 291. Spring.

4. Delete: On page 137, the prerequisite for **ECE 211, Electric Circuits:**

Prerequisite: grade of C- or better in ECE 200. Corequisite: ECE 220. Spring.

Add: On page, 137, in place of deleted entry:

Prerequisite: grade of C- or better in ECE 200. Pre- or corequisite: ECE 220. Spring.

5. Add: On page 138, to the description for **ECE 456, Mechatronics**, new pre- or corequisite:

Pre- or corequisite: MAE 435.

Impact: There will be no impact on the resources and staffing of the Engineering Program at UNCA due to these changes. ECE 435 is already required in the Mechatronics curriculum, and adding it as a pre- or corequisite for ECE 456 should have minimal impact on course enrollment.

Rationale: These courses are part of the Engineering curriculum at NCSU. The changes are requested to match changes made to the NCSU catalog.