Code # ATE14

**Bulletin / Banner Change Transmittal Form**

**[x] Undergraduate Curriculum Council**

**[ ] Graduate Council**

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

Email completed proposals to curriculum@astate.edu for inclusion in curriculum committee agenda.

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| Shubhalaxmi Kher | 11/3/2016 |

**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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| Shubhalaxmi Kher | 11/3/2016 |

**Department Chair:**  |

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**Head of Unit (If applicable)**   |
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| Jason Stewart | 11/3/2016 |

**College Curriculum Committee Chair** |

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**Undergraduate Curriculum Council Chair** |
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| Paul Mixon | 11/3/2016 |

**College Dean** |

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**Graduate Curriculum Committee Chair** |
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**General Education Committee Chair (If applicable)**   |

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**Vice Chancellor for Academic Affairs** |

**1.Contact Person** (Name, Email Address, Phone Number)

Shubhalaxmi Kher, skher@astate.edu, 870.972.2088

Paul Mixon, pmixon@astate.edu, 870.972.2088

**2.Proposed Change**

Change prerequisite ENGR 1412 Software Applications for Engineers to corequisite for ENGR 2423 Electric Circuits I.

**3.Effective Date**

Fall 2017

**4.Justification –** *Please provide details as to why this change is necessary.*

ENGR 2423 is a basic course in electrical engineering where fundamentals are taught. ENGR 1412 explores the use of various software packages for report preparation and numerical solutions to engineering problems. Students learn computations and simulation skills using various software packages in ENGR 1412, and new software platforms are regularly incorporated into ENGR 1412. As such, ENGR 1412 Software Applications can be offered as a corequisite instead of a prerequisite to ENGR 2423.

**Bulletin Changes**

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| **Instructions**  |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Follow the following guidelines for indicating necessary changes.** **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.** - Deleted courses/credit hours should be marked with a red strike-through (~~red strikethrough~~)- New credit hours and text changes should be listed in blue using enlarged font (blue using enlarged font). - Any new courses should be listed in blue bold italics using enlarged font (***blue bold italics using enlarged font***)*You can easily apply any of these changes by selecting the example text in the instructions above, double-clicking the ‘format painter’ icon 🡪 , and selecting the text you would like to apply the change to.**Please visit* [*https://youtu.be/yjdL2n4lZm4*](https://youtu.be/yjdL2n4lZm4) *for more detailed instructions.* |

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**ENGR 2413. Mechanics of Materials** Stress and deformation of members in tension, compres­sion, torsion, and bending. Allowable stress, combination loading, stress and strain transformation, and beam deflection techniques introduced. Prerequisites, C or better in ENGR 1412 and ENGR 2403. Fall, Spring, Summer.

**ENGR 2421. Electric Circuits I Laboratory** Basic experimentation consistent with the theory in ENGR 2423. Prerequisites, C or better in ENG 1013 and ENGR 1402. Corequisites, ENGR 2401 and ENGR 2423. Fall, Spring.

**ENGR 2423. Electric Circuits I** The fundamental laws of circuit theory applied to resistive net­works, network topology, mesh currents and node voltages, network theorems, one terminal and two terminal pair resistive networks. Time response functions of RL and RC circuits and introduction to steady state AC analysis. ~~Prerequisite, C or better in ENGR 1412.~~ Corequisites, ENGR 1412, MATH 2214 and PHYS 2034. Fall, Spring, Summer.

**ENGR 3423. Dynamics** Kinematics and kinetics of particles and of rigid bodies, work and energy, impulse and momentum, special topics. Prerequisite, C or better in PHYS 2034, MATH 2214, and ENGR 2403. Fall, Spring, Summer.