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**[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](mailto:curriculum@astate.edu) for inclusion in curriculum committee agenda.

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| |  |  | | --- | --- | | Shubhalaxmi Kher | 11/3/2016 |   **Department Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **COPE Chair (if applicable)** |
| |  |  | | --- | --- | | Shubhalaxmi Kher | 11/3/2016 |   **Department Chair:** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Head of Unit (If applicable)** |
| |  |  | | --- | --- | | Jason Stewart | 11/3/2016 |   **College Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Undergraduate Curriculum Council Chair** |
| |  |  | | --- | --- | | Dr. Paul Mixon | 11/3/2016 |   **College Dean** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Graduate Curriculum Committee Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **General Education Committee Chair (If applicable)** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Vice Chancellor for Academic Affairs** |

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

Shubhalaxmi Kher, [skher@astate.edu](mailto:skher@astate.edu), 870.972.2088

Paul Mixon, [pmixon@astate.edu](mailto:pmixon@astate.edu), 870.972.2088

**2.Proposed Change**

Change prerequisite ENG 1013 for ENGR 2421 Electric Circuits I Laboratory to corequisite for ENGR 2421 Electric Circuits I Laboratory. Remove corequisite ENGR 2401 Applied Engineering Statistics

**3.Effective Date**

Fall 2017

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

ENGR 2421 Electric Circuits I Laboratory is an introductory course in electrical engineering. ENGR 2421 can be offered with ENG 1013 as a corequisite. ENGR 2401 Applied Engineering Statistics is not required to successfully complete ENGR 2421 Electric Circuits I and would create an 18 hour course load as a corequisite in the second semester of the current EE degree plan.

**Bulletin Changes**

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**ENGR 2411. Mechanics of Materials Laboratory** Material will be tested in the laboratory consis­tent with topics covered in Mechanics of Materials course, which will include strain measurement testing machines and properties of materials. Laboratory two hours per week. Corequisites, ENGR 2401 and ENGR 2413. Fall, Spring.

**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. Prerequisite~~s~~, C or better in ~~ENG 1013 and~~ ENGR 1402. Corequisites, ENG 1013 ~~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, MATH 2214 and PHYS 2034. Fall, Spring, Summer.