Code #EN07 (2014)

**Program and/or Course Deletion Proposal-Bulletin Change Transmittal Form**

[x]  **Undergraduate Curriculum Council** - Print 1 copy for signatures and save 1 electronic copy.

[ ]  **Graduate Council** - Print 1 copy for signatures and send 1 electronic copy to pheath@astate.edu

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| --- |
| **Program and/or Course Deletion** Please complete the following and attach a copy of the catalogue page(s) showing what changes are necessary. |

|  |  |
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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**COPE Chair (if applicable)** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Department Chair:**  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**General Education Committee Chair (If applicable)**   |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Undergraduate Curriculum Council Chair** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Graduate Curriculum Committee Chair** |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Vice Chancellor for Academic Affairs** |

**1. Program and/or Course Title, Prefix and Number**

EE 3303 Semiconductor Materials and Devices I lab

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

Paul Mixon, pmixon@astate.edu, 870.972.2088

Shubhalaxmi Kher, skher@astate.edu, 870.972.2088

**3. Last semester student can graduate with this degree and/or last semester course will be offered**

Spring 2015

**4. Student Population**

a. The program and/or course was initially created for what student population?

Elective course for undergraduate Bachelor of Science in Engineering and Bachelor of Science in Electrical Engineering.

b. How will deletion of this program and/or course affect those students?

This elective lab course has not been offered for past several years in Electrical Engineering. It is not required and there is no future anticipated need for it.

**5.**

**a. How will this affect the department?**

The course has not been offered for several years in Electrical Engineering. It requires background in Electrical Machinery and not required for EE majors. The department will essentially be unaffected.

**b. Does this program and/or course affect another department?**  No

**c. If yes, please provide contact information from the Dean, Department Head, and/ or Program Director whose area this affects.**

Enter text...

**6. (For courses only) Will another course be substituted?**  No

**If yes, what course?**

**From the most current electronic version of the bulletin, copy all bulletin pages that this proposal affects and paste it to the end of this proposal.**

**To copy from the bulletin:**

1. Minimize this form.
2. Go to <http://registrar.astate.edu/bulletin.htm> and choose either undergraduate or graduate.
3. This will take you to a list of the bulletins by year, please open the most current bulletin.
4. Find the page(s) you wish to copy, click on the “select” button and highlight the pages you want to copy.
5. Right-click on the highlighted area.
6. Click on “copy”.
7. Minimize the bulletin and maximize this page.
8. Right-click immediately below this area and choose “paste”.
9. For additions to the bulletin, please change font color and make the font size larger than the surrounding text. Make it noticeable.
10. For deletions, strike through the text, change the font color, and enlarge the font size. Make it noticeable.

Page 193, 2014-15 Undergraduate Bulletin

**Area of Concentration: Electrical Engineering**

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| **Electrical Engineering:** Electives denoted with an asterisk (\*) may be selected from any courses within the desig­nated elective group; subject to a program advisor’s approval. They must make a rational contribution to the student’s personal and professional education goals.  | **Sem. Hrs.**  |
| CHEM 1023, General Chemistry II  | 3  |
| CS 2114, Structured Programming  | 4  |
| EE 3401, Electronics I Laboratory  | 1  |
| EE 3403, Electronics I  | 3  |
| EE 3313, Electric Circuits II  | 3  |
| EE 3333, Digital Electronics I  | 3  |
| EE 3343, Engineering Fields and Waves I  | 3  |
| EE 3353, Continuous and Analog Systems  | 3  |
| EE 3383, Principles and Practices in Electrical Engineering  | 3  |
| EE 4323, Electrical Machinery **OR** EE 4353, Power Systems  | 3  |
| EE 4373, Electronics II **OR** EE 3363, Semiconductor Materials and Devices I  | 3  |
| EE 4773, Intermediate Electrical Engineering Laboratory **~~OR~~** ~~EE 3303, Semiconductor and Optoelectronic Materials and Devices I Laboratory~~  | 3  |
| EE 4383, Digital Electronics II **OR** EE 4313, Control Systems  | 3  |
| ENGR 4413, Engineering Problem Solving  | 3  |
| \*Engineering Electives  | 2  |
| \*Approved Electives  | 3  |
| **Total Required Hours:**  | **46**  |

**Page 199, 2014-15 Undergraduate Bulletin**

**Major in Electrical Engineering**

**Bachelor of Science in Electrical Engineering**

A complete 8-semester degree plan is available at http://registrar.astate.edu/.

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| **University Requirements:**  |
| See University General Requirements for Baccalaureate degrees (p. 41)  |
| **First Year Making Connections Course:**  | **Sem. Hrs.**  |
| ENGR 1402, Concepts of Engineering (See College of Engineering Core Courses)  | **-**  |
| **General Education Requirements:**  | **Sem. Hrs.**  |
| See General Education Curriculum for College of Engineering  | **38**  |
| **Additional Support Courses:**  | **Sem. Hrs.**  |
| Refer to Additional Support Courses for College of Engineering  | **7**  |
| **College of Engineering Core Courses:**  | **Sem. Hrs.**  |
| Refer to College of Engineering Core Courses  | **34**  |
| **Major Requirements:** Electives denoted with an asterisk (\*) may be selected from any courses within the desig­nated elective group; subject to a program advisor’s approval. They must make a rational contribution to the student’s personal and professional education goals. In addition to the University requirements for all Baccalaureate Degrees, a Bachelor of Science in Electrical Engineering requires that one of the two following conditions be met: 1. “C” or better in each course in the 49-hour major courses; **OR** 2. 2.5 (or greater) grade point average in the 49-hour major courses listed below.  | **Sem. Hrs.**  |
| CHEM 1023, General Chemistry II  | 3  |
| CS 2114, Structured Programming  | 4  |
| EE 3401, Electronics I Laboratory  | 1  |
| EE 3403, Electronics I  | 3  |
| EE 3313, Electric Circuits II  | 3  |
| EE 3333, Digital Electronics I  | 3  |
| EE 3343, Engineering Fields and Waves I  | 3  |
| EE 3353, Continuous and Analog Systems  | 3  |
| EE 3383, Principles and Practices in Electrical Engineering  | 3  |
| EE 4323, Electrical Machinery **OR** EE 4353, Power Systems  | 3  |
| EE 4333, Communications Theory  | 3  |
| EE 4373, Electronics II **OR** EE 3363, Semiconductor Materials and Devices I  |  3  |
| EE 4773, Intermediate EE Lab **~~OR~~** ~~EE 3303, Semiconductor and Optoelectronics Matl and Devices I Lab~~  | 3  |
| EE 4383, Digital Electronics II **OR** EE 4313, Control Systems  | 3  |
| ENGR 4413, Engineering Problem Solving  | 3  |
| \*Engineering Electives  | 2  |
| \*Approved Electives  | 3  |
| **Sub-total**  | **49**  |
| **Total Required Hours:**  | **128** |

 Page 443, 104-15 Undergraduate Bulletin

**ELECTRICAL ENGINEERING PROGRAM**

**Electrical Engineering (EE)**

**EE 3313. Electric Circuits II** Transient analysis, average power, RMS values, mutual inductance, resonance, network theorems and principles, polyphase networks, complex power. Prerequisite, C or better in MATH 2214 and ENGR 2423. Spring.

**EE 3331. Digital Electronics I Laboratory** Experimentation and design with digital electronic and computer components and circuits including logic gates, flip flops, counters, and registers. Practical applications in timing and control. Logic families such as TTL, ECL, and CMOS. Prereq­uisite, C or better in ENGR 2421. Corequisite, EE 3333. Demand.