Concentrations

BSEE - Photonics Concentration
Bachelor of Science in Electrical Engineering
Classes begin in Fall of 3rd year:

1. Get a copy of the EE-Photonics Concentration flowchart and .pdf degree audit that pertain to your catalog year.

2. In 2nd year spring, postpone EE3120 into future semester. It is not required.

3. Plan to complete prerequisite courses by Fall of 3rd year, or Fall of 4th year if you are off track.

4. Take EE3090 in Fall of 3rd year. (or 4th year as needed)

5. Take EE3190 in spring of 3rd year, EE3290 in fall of 4th year and EE4490, Laser systems in spring of 3rd or 4th year.

6. Select two concentration elective courses.

7. To officially add a concentration:
   1. Complete a Curriculum Add/Drop Form
   2. Bring it to Judy Donahue, EERC 131.

Faculty:
- Dr. Durdu Guney, 729
- Dr. Chris Middlebrook, 628
- Dr. Mike Roggemann, 503
BSEE - Biomedical Applications Concentration

Bachelor of Science in Electrical Engineering

Classes begin in 2nd year:

1. Get a copy of the EE-Biomedical Applications Concentration flowchart and .pdf degree audit that pertain to your catalog year.

2. Take Anatomy & Physiology I (BL2010) AND Cellular & Molecular Biology (BE2400) in Fall of 2nd year.


4. In Spring of 2nd year, decide whether to take Biomechanics I or Biomaterials I. Plan in 3rd year, for your Biomedical Applications Concentration "focus". Become familiar with concentration elective courses and semester offered.

5. Take BE3700 and BE3701, Bioinstrumentation and Lab in Spring of 3rd year.

6. To officially add a concentration:
   1. Complete a Curriculum Add/Drop Form
   2. Bring it to Judy Donahue, EERC 131

   Faculty:
   - Dr. Chris Middlebrook, 628
   - Dr. Sean Kirkpatrick, M&M 301
Electrical and Computer Engineering

Concentrations

BSEE - Environmental Applications Concentration

Bachelor of Science in Electrical Engineering

Classes begin in 3rd year:

1. Get a copy of the EE-Environmental Applications Concentration flowchart and .pdf degree audit that pertain to your catalog year.

2. First 2 years of coursework are the same as the BSEE.

3. Take Environmental Engineering Fundamentals (CEE3501 or ENVE3501) in Fall of 3rd year; Take Environmental Monitoring and Measurement Analysis (CEE3501 or ENVE3502) in Spring of 3rd year.

4. In Fall of 2nd year or Spring of 3rd year, decide which remote sensing sequence you will take: 1) EE4252 and GE4250 OR 2) EE3090 and EE3190

5. Become familiar with the Environmental Engineering Quality elective courses and semester offerings. Choose two courses from the list.

6. To officially add a concentration:
   1. Complete a Curriculum Add/Drop Form
   2. Bring it to Judy Donahue, EERC 131

Faculty:

- Dr. Ashok Ambardar, 826 (DSP)
- Dr. Durdu Guney, 729
- Dr. Chris Middlebrook, 628
BSEE - Electric Power Engineering Concentration

Bachelor of Science in Electrical Engineering

Began AY 2017 – 2018

1. Electric Energy Systems (EE3120) is the prerequisite course to the Electric Power Engineering courses. This can be taken in Spring of 2nd year, Summer or during 3rd year.

2. Take Power Analysis 1 (EE4221) in Fall of 4th year; Take Power Analysis 2 (EE4222) and Power Engineering Lab (EE4226) in Spring of 4th year.

3. In your 3rd year, become familiar with concentration elective courses, prerequisites and semesters offered. You will choose one electric power engineering elective course which may be taken in spring of 3rd year or in the 4th year.

4. To officially add a concentration:
   1. Complete a Curriculum Add/Drop Form
   2. Change your catalog year to 2017-18 (if currently a prior catalog year)
   3. Bring it to Judy Donahue, EERC 131

Faculty:
- Mr. John Lukowski, 233
- Dr. Bruce Mork, 614
- Dr. Sumit Paudyal, 611
- Dr. Chee-Woii Ten, 613
- Dr. Wayne Weaver, 236
Concentrations

BSCpE and BSEE - Enterprise Concentration

Bachelor of Science in Computer Engineering
Bachelor of Science in Electrical Engineering

1. Choose an Enterprise to join. May begin as early as Spring of 1st year (ENT1960 is optional), but is not required until Fall of 3rd year - begin in ENT3950.

2. Required project work is 4 semesters in 3rd and 4th year: ENT3950, ENT3960, ENT4950 and ENT4960.

3. Take Teaming in Enterprise (ENT2961) in Fall of 2nd or 3rd year; Take Communication Contexts (ENT2962) in Spring of 2nd or 3rd year.

4. In your 3rd year, become familiar with concentration elective courses. A list of these Enterprise Instructional modules are included in your degree audit report. Add your course selections to your academic plan.

5. To officially add a concentration:
   1. Complete a Curriculum Add/Drop Form
   2. Bring it to Judy Donahue or Trever Hassell, EERC 131