# SHORT SIGNATURE SHEET

**Date:** January 11, 2016

**Subject:** ELET Curricular Changes – ELET

**Originating Department:** Engineering Technology and Construction Management

**TYPE OF PROPOSAL:** UNDERGRADUATE **X** GRADUATE

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<table>
<thead>
<tr>
<th>Signature: PERSON ORIGINATING PROPOSAL</th>
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<tbody>
<tr>
<td>Deborah Sharer</td>
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<table>
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<th>Signature: DEPARTMENT CHAIR</th>
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<tr>
<td>Anthony Z. Brier</td>
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<tr>
<th>Signature: COLLEGE CURRICULUM COMMITTEE CHAIR</th>
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<tr>
<td>Mehdi Mir</td>
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<th>Signature: COLLEGE DEAN</th>
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<tbody>
<tr>
<td>Robert Johnson</td>
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- **Comments:**
  - Approved
  - Approved
  - Approved
  - Approved

- **Signatures:**
  - Approved
  - Approved
  - Approved
  - Approved

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**SIGNATURES**

**PERSON ORIGINATING PROPOSAL**

| [Deborah Sharer] |

**DEPARTMENT CHAIR**

| [Anthony Z. Brier] |

**COLLEGE CURRICULUM COMMITTEE CHAIR**

| [Mehdi Mir] |

**COLLEGE DEAN**

| [Robert Johnson] |

**GENERAL EDUCATION**

(for General Education courses)

[print name here]

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**UNDERGRADUATE COURSE & CURRICULUM COMMITTEE CHAIR** (for undergraduate courses)

**GRADUATE COUNCIL CHAIR**

(for graduate courses)

**FACULTY GOVERNANCE ASSISTANT**

(Faculty Council approval on Consent Calendar)

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Revised 08/01/11

OAA/Iz
*To: Undergraduate Course and Curriculum Committee Chair

From: Deborah Sharer

Date: January 11, 2016

Re: ELET Curricular Changes

SUMMARY: To provide for a third major elective that will allow Electrical Engineering Technology (ELET) students an enhanced ability to specialize within their undergraduate degree, the Department of Engineering Technology and Construction Management proposes:

1. Removal of ELET4151, Communication Systems, as a required course in the ELET curriculum. ELET4151 will remain as an option for a major elective.
2. Removal of ELET4151L, Communication Systems Laboratory, as a required course in the ELET curriculum.

FOR CONSULTATION WITH OTHER DEPARTMENTS:

1. Does the proposed change affect other departments?

   _____ Yes   _____ No

2. If Yes, please list the other departments affected by the proposed change:

3. Have you consulted with each department listed in item 2 regarding the proposed change?

   _____ Yes   _____ No

Result(s) of Consultation(s) (please attach documentation):
For a new course or for major modification of an existing course, include Consultation on Library Holdings.

RESOURCES:
1. For a new course or revisions to an existing course, check all the statements that apply:
   - [ ] This course will be cross listed with another course.
   - [ ] There are prerequisites for this course.
   - [ ] There are co-requisites for this course.
   - [x] This course is repeatable for credit.
   - [x] This course will affect the number of credits hours for its program.
   - [x] This proposal results in the deletion of an existing course(s) from the degree program and/or catalog.

For all items checked above, applicable statements and content must be reflected in the proposed catalog copy.

2. Indicate the additional resources required, if any, to implement and maintain the proposed change.

None

PROPOSED CATALOG COPY:

Electrical Engineering Technology, B.S.E.T.

‡Return to: Academic Programs (alphabetic)

Electrical Engineering Technology includes programming, AC/DC circuits, digital circuits, microprocessors and microcontrollers, solid-state electronics, integrated circuits, analog and digital systems, linear and nonlinear networks, power systems, communications, control systems, and engineering economics.

Additional Admission Requirements

Students for this degree may enter degree programs in the Department of Engineering Technology and Construction Management as freshmen or as transfer students.

Freshman Admission

Applicants entering as Freshmen must meet the general University admission requirements.
Transfer Admission

Transfer admission into the department occurs in one of two situations:

1. Transfer applicants not having the Associate in Applied Science (AAS) degree or its equivalent must meet general University admission requirements.
2. Transfer applicants with an Associate of Applied Science (AAS) degree must:

   a) Hold an Associate of Applied Science (AAS) degree in a field appropriate to the option they plan to enter. Acceptable AAS degrees include Architectural, Automation, Building Construction, Civil, Construction, Computer, Controls, Design and Drafting, Electrical, Electronics, Environmental, Fire Protection, Fire Science, Industrial, Instrumentation, Manufacturing, Mechanical, Optics, Robotics, Surveying or similar title with curriculum acceptable to the department. A minimum GPA of 2.2 (out of 4.0) in the AAS degree is required.

   b) Have completed satisfactorily the prerequisite background courses for the option they plan to enter (missing background courses may be taken at UNC Charlotte).

Acceptance of a completed AAS degree indicates the acceptance of up to 64 credit hours toward the Bachelor of Science in Engineering Technology degree program only. These hours may not be valid toward other degree programs at UNC Charlotte.

Residence Requirements

A student must earn the last 30 credit hours toward the BSET degree and the last 12 credit hours in the major at UNC Charlotte to satisfy residence requirements.

Experiential Learning Requirements

All students must complete an experiential learning course. Experiential courses are practice-oriented courses such as cooperative education, internships, senior design projects, or undergraduate research.

Internships, or 49erships, involve paid or unpaid work in a career-related position for professional experience. A minimum of 80 work hours and 5 weeks for one semester is required to complete the program. Fall and Spring 49erships are part-time. Summer 49erships may be full- or part-time. Full-time students who are in good University standing, have completed 30 credit hours, and have a 2.0 minimum cumulative GPA are eligible. Internships do not offer academic credit, but are noted on the student's transcript; students pay a course registration fee. Approval for enrollment must be arranged before the student begins a work experience. Students may begin this program during their Sophomore year; transfer students must complete 12 credit hours at UNC Charlotte before making application for the program. For more information, contact the College of Engineering Office of Student Development and Success or the University Career Center.

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Remediation of Academic Entrance Requirements for AAS Transfer Students

In addition to University and College of Engineering requirements, an AAS transfer student who is admitted to any ESSET program without meeting ALL published admission requirements is expected to remove all admission deficiencies within one year. Violators are subject to discontinuance and enrollment in senior-level coursework is prohibited until all deficiencies are removed.

Course Requirements

Course requirements correspond to the mode of admission for each student as outlined hereafter.

1. Entering Freshmen: Students admitted as Freshmen complete the appropriate four year curriculum for the program into which they were admitted.
2. Transfer students not holding an appropriate AAS degree: Transfer students not holding an appropriate AAS degree must complete the remaining coursework outlined for the respective four year curriculum that they were admitted into after evaluation and application of any transfer credit.
3. Transfer students holding an appropriate AAS degree: Transfer students with an appropriate Associate of Applied Science (AAS) degree as defined previously under Admission Requirements may begin the program in the Junior year with up to 64 transfer credit hours awarded. Prerequisites for students holding an AAS degree from a community or technical college are listed below.

Prerequisite Courses

Students transferring with an AAS degree must have satisfactorily completed the following subjects in their two-year program:

- English Composition, Technical Writing and/or Public Speaking (6 credit hours)
- Algebra and Trigonometry (3-6 credit hours)
- Differential and Integral Calculus (6 credit hours)
- General Physics (with lab) (4 credit hours)
- Additional Physics or Chemistry (with lab) or Geology (for CIET) (4 credit hours)
- Humanities or Social Sciences (3 credit hours)
- Technical Courses in Major Area as listed below (up to 38 credit hours)
  - DC Circuits and DC Circuits Laboratory
  - AC Circuits and AC Circuits Laboratory
  - Circuit Simulation
  - Digital Circuits and Digital Circuits Laboratory
  - Electronic Devices and Electronic Devices Laboratory
  - Power Systems and Machines
  - Microprocessors
  - Instrumentation or Programmable Logic Controllers and associated laboratory
  - C Programming
Total maximum transfer credit from two-year colleges is 64 credit hours.

**Degree Requirements (4-Year Program)**

The BSET in Electrical Engineering Technology program consists of 42 & 1/2 credit hours.

**General Education Courses (21 credit hours)**

For details on required courses, refer to the General Education program. Students in this major should plan on taking the following courses that meet general education and major requirements.

- LBST 110X - The Arts & Society (3)
- LBST 2101 - Western Cultural and Historical Awareness (3)
- LBST 2102 - Global and Intercultural Connections (3)
- LBST 221X - Ethical and Cultural Critique (3)
- UWRT 1101 - Writing and Inquiry in Academic Contexts I (3)*
- UWRT 1102 - Writing and Inquiry in Academic Contexts II (3)*

**Social Science Elective Course**

*Select one of the following:*

- ANTH 1101 - Introduction to Anthropology (3)*
- GEOG 1105 - The Location of Human Activity (3)*
- POLS 1110 - American Politics (3)*
- ECON 1101 - Economics of Social Issues (3)*
- ECON 2101 - Principles of Economics - Macro (3)*
- SOCY 1101 - Introduction to Sociology (3)*

**Mathematics and Science Foundation Courses (26 credit hours)**

- CHEM 1251 - General Chemistry I (3)
- ETGR 2272 - Engineering Analysis II (3)*
- ETGR 3171 - Engineering Analysis III (3) or ETGR 4272 - Engineering Analysis IV (3)
- MATH 1103 - Precalculus Mathematics for Science and Engineering (3)*
• MATH 1121 - Calculus for Engineering Technology (3) * or 
  ETGR 2171 - Engineering Analysis I (3) *

• PHYS 1101 - Introductory Physics I (3) *
• PHYS 1101L - Introductory Physics I Laboratory (1) *
• PHYS 1102 - Introductory Physics II (3)
• PHYS 1102L - Introductory Physics II Laboratory (1)
• STAT 1220 - Elements of Statistics I (BUSN) (3) *

Major Courses (75 credit hours)

• ELET 1101 - Simulation and Schematic Capture (1) *
• ELET 1111 - DC Circuits (3) *
• ELET 1111L - DC Circuits Laboratory (1) *
• ELET 1212 - AC Circuits (3) *
• ELET 1212L - AC Circuits Laboratory (1) *
• ELET 1231 - Digital Circuits (3) *
• ELET 1231L - Digital Circuits Laboratory (1) *
• ELET 2121 - Electronics I (3) *
• ELET 2121L - Electronics I Laboratory (1) *
• ELET 2141 - Introduction to Power Systems (3)
• ELET 2201 - C Programming (3)
• ELET 2231 - Microprocessor Fundamentals (3)
• ELET 2241 - Instrumentation and Controls (3)
• ELET 2290 - Sophomore Practicum (2)
• ELET 3113 - Network Analysis (3)
• ELET 3132 - Digital Systems (3)
• ELET 3132L - Digital Systems Laboratory (1)
• ELET 3191 - Junior Practicum I (1)
• ELET 3222 - Electronics II (3)
• ELET 3222L - Electronics II Laboratory (1)
• ELET 3232 - Microcontroller Systems (3)
• ELET 3292 - Junior Practicum II (1)
• ELET 4123 - Active Filters (3)
• ELET 4142 - Power Electronics (3)
• ELET 4151 - Communication Systems (3)
• ELET 4151L - Communication Systems Laboratory (1)
• ELET 4242 - Control Systems (3)
• ETGR 1100L - Engineering Technology Computer Applications Laboratory (1) *
• ETGR 1201 - Introduction to Engineering Technology (2) *
• ETGR 2122 - Technical Programming (3)
• ETGR 3071 - Engineering Technology Professional Seminar (1)
• ETGR 3222 - Engineering Economics (3)

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OAA/iz
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- ETGR 4100 - Capstone Design Project I (2)
- ETGR 4200 - Capstone Design Project II (2)

Note:

*Course must be completed with a grade of C or above.*

**Restricted Elective Courses (69 credit hours)**

Select two three 3-credit courses approved by the Department of Engineering Technology and Construction Management for the respective program. A list is maintained in and published by the department.

**Degree Total = 128-127 credit hours**

**Degree Requirements (2+2-Year Program)**

The BSET in Electrical Engineering Technology program consists of 128-127 credit hours.

**AAS Degree (64 credit hours)**

AAS transfer students from approved programs receive 64 credit hours for the AAS degree; thus, AAS students need only to complete the upper-division portion of the courses listed below and remediate any entrance deficiencies noted upon matriculation.

**General Education Courses (12 credit hours)**

- LBST 110X - The Arts & Society (3)
- LBST 2101 - Western Cultural and Historical Awareness (3)
- LBST 2102 - Global and Intercultural Connections (3)
- LBST 221X - Ethical and Cultural Critique (3)

**Mathematics and Science Foundation Courses (6 credit hours)**
Transfer Students with an AAS Degree who have previously taken:

1 semester of physics with lab and no chemistry
1 semester of physics with lab and 1 semester of chemistry
2 semesters of physics with lab and 1 semester of chemistry

Shall Take at UNC Charlotte:

CHEM 121

Physics Lab (1 credit)

GEOL 120, 211, 110, EROS 110, or
CHEM 132

Major Courses (40 credit hours)

- ELET 2312 - Network Analysis (3)
- ELET 3152 - Digital Systems (3)
- ELET 3132 - Digital Systems Laboratory (0)
- ELET 3392 - Junior Project I (3)
- ELET 3222 - Electronics II (3)
- ELET 3222L - Electronics II Laboratory (0)
- ELET 3232 - Microcontroller Systems (3)
- ELET 3292 - Senior Project II (3)
- ELET 4103 - Active Filters (3)
- ELET 4343 - Power Electronics (3)
- ELET 4341 - Computer-Aided Design (1)
- ELET 4347 - Computer-Aided Design Laboratory (0)
- ELET 4242 - Control Systems (3)
- ELET 4233 - Technical Programming (3)
- ELET 3071 - Engineering Technology Professional Seminar (0)
- ELET 3222 - Engineering Economics (3)
- ETGR 4100 - Capstone Design Project I (2)
- ETGR 4200 - Capstone Design Project II (2)

Note:

*Course must be completed with a grade of C or above.

Restricted Elective Courses (6-9 credit hours)

Select two-three 3-credit hour courses approved by the Department of Engineering Technology and Construction Management for the respective program. A list is maintained in and published by the department.

Degree Total = 128-127 credit hours

Concentration in Applied Energy

A Concentration in Applied Energy is available to BSET in Electrical Engineering Technology students. Students may focus their studies by successfully completing 12 credit hours from the following:

- ELET 2141 - Introduction to Power Systems (3)
- ELET 4142 - Power Electronics (3)
- ELET 4243 - Power Networks (3)
- ENER 4140 - Energy Management (3)
- ENER 4250 - Analysis of Renewable Energy Systems (3)
- ENER 4260 - Hydrogen Production and Storage (3)
- ENER 4280 - Fuel Cell Technology (3)
- ETCE 3271 - Building Systems (3)
- SEGR 4961 - Introduction to Energy Systems (3)
- SEGR 4962 - Energy Markets (3)
- Other courses as approved

Suggested Curriculum
For a suggested curriculum progression toward completing the major, please see the Academic Plan of Study available online at academics.uncc.edu.

**ACADEMIC PLAN OF STUDY:** The proposed changes in the Academic Plan of Study for the Electrical Engineering Technology program is provided below and will replace the current suggested curriculum in the catalog as follows:
# Suggested Plan of Study - Electrical Engineering Technology

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31 Credit Hours for Year

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33 Credit Hours for Year

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34 Credit Hours for Year

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34-39 Credit Hours for Year

Revised 08/01/11
OAA/Itz
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