

Course Articulation between New Mexico State University
and
El Paso Community College

For students pursuing a bachelor of science degree in
ENGINEERING TECHNOLOGY
“Linking Theory and Applications”
with a major in
Electronics and Computer Engineering Technology

Students wishing to begin their studies at the Community College before transferring to NMSU typically spend at least four semesters and get an AAS or AS degree in Engineering track program. This is typically followed by four to six semesters at NMSU. An advisor in Engineering Technology should be consulted for all transfers. A complete description of the requirements for the degree may be found below and at the link:

http://www.nmsu.edu/Academic_Progs/Undergraduate_Catalog/ch6/et.pdf

This agreement voids all previous agreements and is valid for students transferring to NMSU until modified by the parties.

Note (1): According to 5 NMAC 55.3 a set of 35 semester hours of standardized General Education common core classes in five areas of study may be taken at the Community College and transferred to NMSU in any department. To fulfill all these requirements “may” require the student to take additional classes beyond their AS or AAS degree – see <http://hed.state.nm.us/>

Note (2): Math sequences may be taken at the Community College and a “math placement” exam will determine the students’ math level upon entering NMSU. It is strongly recommended that transferring students have at a minimum of College Algebra to permit the easiest transition to NMSU College of Engineering – the more math the better!

Note (3): Residency requirement. The last 30 credits used to meet degree requirements must be taken at NMSU, of which at least 20 of these must be upper division.

Note (4): C or better grade requirement. The NMSU College of Engineering requires a C or better grade in all required lower division science, mathematics, engineering and engineering technology courses. This requirement applies to NMSU courses and all transfer courses.

Courses which may be taken at Community College which will transfer to ETSE at NMSU are indicated in **blue italics** in the degree plan below:

DEGREE: Bachelor of Science in Engineering Technology
MAJOR: Electronics and Computer Engineering Technology (Total Credits 128)

Accredited by the Technology Accreditation Commission of the ABET, Inc.

Freshman Year (32 credits)

Gen Ed from Area I: Public Speaking	3
<i>Appropriate approved class from this area 3cr.</i>	
<i>For example: Spch 11315, 1318, or 1321</i>	
Gen Ed from Area I: English Composition	3-4
<i>Appropriate approved class from this area 3cr.</i>	
<i>For example: Engl 1301</i>	
ET 101, Introduction to Engineering Technology	1
<i>Credit will be given for the AS or AAS degree at EPCC</i>	
<i>Or</i>	
<i>Engr 1401</i>	
ET 120, Computational and Presentation Software	3
<i>COSC 1301 or ITSC 1301</i>	
ET 182, Digital Logic	3
<i>CETT 1425 Digital Fundamentals</i>	
ET 190, Applied Circuits	3
<i>CETT 1403 and 1405 DC and AC circuits</i>	
<i>Or</i>	
<i>Engr 2305 Circuits I</i>	
ET 191, Applied Circuits Laboratory	1
MATH 190, Precalculus	4
<i>Appropriate MATH PLACEMENT or Math 2412</i>	
PHYS 211-211L, General Physics I, General Physics Lab I	4
<i>PHYS 2425 & Lab 4cr.</i>	
Gen Ed from Area V: Humanities and Fine Arts	3
<i>Appropriate approved class from this area 3cr.</i>	
Free elective	3
<i>Any 3 cr. class not otherwise used will count as transfer credit</i>	

Sophomore Year (35 credits)

Gen Ed from Area III: Laboratory Science	4
<i>Appropriate approved class from this area 3cr.</i>	
<i>For example: CHEM 1411 & Lab</i>	
Gen Ed from Area I: College Level Writing	3
<i>Appropriate approved class from this area 3cr.</i>	
<i>For example Engl 1302</i>	
ET 246, Electronic Devices I	4
<i>CETT 1441 Solid State Circuits</i>	
ET 262, Software Technology I	3

<i>ITSE 2317 JAVA prgm or 2331 C++</i>	
ET 272, Electronic Devices II	4
ET 282, Digital Electronics	4
MATH 235, 236, Calculus for the Technical Student I, II	6
<i>Math placement or Math 2314 and 2315 6cr</i>	
PHYS 212-212L, General Physics II, General Physics Lab II	4
<i>PHYS 2426 & Lab 4cr.</i>	
Gen Ed from Area IV: Social/Behavioral Sciences	3
<i>Appropriate approved class from this area 3cr.</i>	

Junior Year (31 credits)

ET 302, Manufacturing Data Analysis	3
ET 324, Linear Integrated Circuits	4
ET 344, Microcomputer Systems	3
ET 362, Software Technology II	3
ET 377, Computer Networking	3
ET 398, Digital Systems	3
Viewing a Wider World from the Business College	3
Approved technical elective	3
<i>An approved class or group of classes “<u>may</u>” fulfill this requirement</i>	
Gen Ed from Area IV: Social/Behavioral Sciences	3
<i>Appropriate approved class from this area 3cr.</i>	
Gen Ed from Area V: Hum. And Fine Arts	3
<i>Appropriate approved class from this area 3cr.</i>	

Senior Year (31 credits)

CE 450, Engineering Economy and Law	3
ET 381 Renewable Energy Technology or ET 365 Building Utilities	3
ET 402, Instrumentation	3
ET 314 Communication Systems I	3
ET 410, Senior Seminar	1
ET 444, Hardware Senior Design	3
ET 462, Remote Access Operating Systems and Advanced Scripting	3
Approved technical electives	6
Gen Ed from Area IV: Social/Behavioral Sciences or from Area V: Humanities and Fine Art	3
<i>Appropriate approved class from this area 3cr.</i>	
Viewing a Wider World – outside of Engineering and Business	3

Courses which must be taken at NMSU (do NOT have a corresponding transfer

class at EPCC) in the Freshman and Sophomore years:

ET 191, Applied Circuits Laboratory	1
ET 272, Electronic Devices II	4
ET 282, Digital Electronics	4

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Renewable Energy Technology Concentration

What follows is a list of classes and the corresponding basic study areas that will result in a Concentration in “*Renewable Energy Technology*” within the ECET major. Students can fulfill this Concentration by using their three required technical electives without any additional credit requirements.

Required

ET 381 Renewable Energy Technology. Note: this class can not be considered to simultaneously fulfill the requirement for both a technical elective and that for a required class – see ET365 below

2 Courses From:

ET 365 Building Utilities – Note: this class can not serve both as a tech. elective and as a required ECET class, toward fulfilling degree requirements

ET 304 Electrical Machines,
ET 374 Electric Power Distribution,
ET 382 Solar Energy,
ET 384 Wind Energy,
ET 396 Heat Transfer and Applications,
ET401 Heating & Air Conditioning Systems,
EE 332 Introduction to Electric Power Engineering,
CHE 466 Fuel Cell and Hydrogen Technology, or

Students may only take one class from the following choices:

1. ET 420 Senior Internship – (must be related to a renewable energy field)
2. ET 435 Senior Design and Project Management (must be related to a renewable energy application)
3. ET 440 Senior Design – (must be related to a renewable energy application)
ET 441 Senior Project – (must be related to a renewable energy application)

Additionally, it is strongly “*recommended*” that students select the following courses from the General Education menu options:

English Composition: English 218G or 318G “Technical Writing”

Basic Natural Sciences: Chem. 110G or 111

Human Thought and Behavior: Phil 240G Ethics for Engineering and Scientific Careers

Viewing a Wider World recommendations:

- College of AG: AGE/ECON 337G “Natural Resource Economics” or AGHE 380G “Ecosystem Earth; The Impact of Human Activities”
- College of Arts & Science: Phys 303G “Energy and Society in the New Millennium” or Hist 302G “Science in Modern Society” or Hist 303G “History of Technology”
- College of BA&Econ: ECON 337G “Natural Resource Economics” or ECON 384G “Water Resource Economics”