DRAFT

Articulation Agreement
between

New Mexico State University (NMSU)
Department of Engineering Technology
and Surveying Engineering (ETSE)

and

Luna Community College

For Students Pursuing a Bachelor of Science Degree
in
Engineering Technology
Major in Electronics and Computer Engineering Technology
Last Modified on 10/10/2007

Luna CC:

Attested to on this day of _____

_____
Name of Responsible Party here?
Luna Community College

NMSU:

Attested to on this day of _____

_____
Dr. Krist Petersen
Associate Dean of Engineering
New Mexico State University

Course Articulation between New Mexico State University
and
Luna 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 Electronics Engineering Technology. 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.

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 transfering 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 the 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
Appropriate approved class from this area 3cr.(SPCH 111 or 112)
Gen Ed from Area I: English Composition 3-4
Appropriate approved class from this area 3cr. (ENGL 111 or 115)
ET 101, Introduction to Engineering Technology 1
ETSE will transfer this credit if the student completes the AAS or AS degree
ET 120, Computational and Presentation Software 3
**CIS100 Computer Fundamentals 3cr.*
Or
**SMET 105 Computer Use for Technology 3cr*
***NOTE:** the above class is not part of the normal Elect.Tech. pgrm at Luna CC*

ET 182, Digital Logic 3
ELEC 204 and/or ELEC 206 Digital Electronic Circuits 6cr
ET 190, Applied Circuits 3
ELEC 101 and ELEC 102 Basic AC/DC Electronics 8cr.
ET 191, Applied Circuits Laboratory 1
ELEC 101L and ELEC 102 lab components?
MATH 190, Precalculus 4
**MATH 190 Trigonometry 4cr*
Or appropriate MATH PLACEMENT
***NOTE:** the above class is not part of the normal Elect.Tech. pgrm at Luna CC*

PHYS 211-211L, General Physics I, General Physics Lab I 4
PHYS115 & Lab General Physics I 4cr.
Gen Ed from Area V: Humanities and Fine Arts 3
Appropriate approved class from this area 3cr.
Free elective 3
Any 3 cr. class not otherwise used will count as transfer credit

Sophomore Year (35 credits)

Gen Ed from Area III: Laboratory Science* 4
**Appropriate approved class from this area 4cr. (CHEM 105)*
**NOTE: must have a lab component*
Gen Ed from Area I: College Level Writing 3
Appropriate approved class from this area 3cr. (ENGL 115 3cr.)
ET 246, Electronic Devices I 4
ELEC 107 Solid State Fundamentals 4cr (3+2p) and/or
ELEC 200 Active Electronic Devices 4cr. (3+2p)

OR
ELEC 196 4cr (3+2p) and/or
ELEC 200 Active Electronic Devices 3cr. (2+2p)

ET 262, Software Technology I 3
CIS 247 Java Programming 3cr.* *(preferred)***
or
**CIS218 C++ 3cr.*

*****NOTE:*** *the above class is not part of the normal Elect.Tech. pgrm at Luna CC*

ET 272, Electronic Devices II 4
ET 282, Digital Electronics 4
MATH 235, 236, Calculus for the Technical Student I, II 6
Math placement
Or
Math 195 Calc I and Math 212 Calc II 6cr

*****NOTE:*** *the above class is not part of the normal Elect.Tech. pgrm at Luna CC*

PHYS 212-212L, General Physics II, General Physics Lab II 4
PHYS116 & Lab General Physics I 4cr.
Gen Ed from Area IV: Social/Behavioral Sciences 3
Appropriate approved class from this area 3cr.

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
*An approved class or group of classes "****may"*** *fulfill this requirement*
For example: ELEC 209 & L along with ELEC 229 & L
Or
ELEC 202 Telecommunications Electronics 3cr.
Gen Ed from Area IV: Social/Behavioral Sciences 3
Appropriate approved class from this area 3cr.
Gen Ed from Area V: Hum. And Fine Arts *3*
Appropriate approved class from this area 3cr.

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
Appropriate approved class from this area 3cr.	
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 SIPI) in the Freshman and Sophomore years:

ET 272 Electronic Devices II	(this has a Calcus component not found at the CC)	4
ET 282, Digital Electronics	(includes topics not found in the CC classes	4

Luna CC technical degree classes not specifically used:
ELEC 209 – material in the ECET option is covered in upper division classes
ELEC 212 - material in the ECET option is covered in upper division classes
NOTE: These classes may be used to satisfy transfer credit for an ECET technical elective (see above).

For more information contact:
Dr. Sonya Cooper
or
Thomas Jenkins, ECET coordinator
New Mexico State University
Box 30001 - MSC 3566
Las Cruces, NM 88003
505/646-2236; FAX: 505/646-6107
e-mail: nmsuet@nmsu.edu

Oct. 15, 2007

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"