Articulation Agreement
between

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

and

Dona Ana Community College (DACC)
Aerospace Technology

For Students Pursuing a Bachelor of Science Degree
in
Engineering Technology
Major in Mechanical Engineering Technology
Last Modified on 10/11/2011

NMSU:

Attested to on this day of October 31, 2011

Dr. Sonya Cooper
Associate Dean of Engineering
New Mexico State University

Course Articulation between New Mexico State University
and
Dona Ana Community College
Aerospace Technology

For students pursuing a bachelor of science degree in
ENGINEERING TECHNOLOGY
"Linking Theory and Applications"
with a major in
Mechanical 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 degree in Aerospace Technology. This is typically followed by five or 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 AAS degree.

Note (2): Math sequences may be taken at the Community College and a MPE (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 student must complete at NMSU at least 30 of the last 36 credits necessary for the baccalaureate degree. Of these 36 credits, 21 credits must be upper division and at least 12 of these upper division credits must be in the major.

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 the Mechanical Engineering Technology program at NMSU are indicated in **blue italics** in the degree plan below:

DEGREE: Bachelor of Science in Engineering Technology
MAJOR: Mechanical Engineering Technology (Total Credits 130)

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

Area I: Communications (10 credits)

Rhetoric and Composition *Appropriate approved class from this area 3cr. (ENGL 111G 4cr.)*	4
Written Communications Elective *Appropriate approved class from this area 3cr. such as ENGL 218G (3cr.) or ENGL 203G*	3
Oral Communications Elective *Appropriate approved class from this area 3cr. (COMM 265 3 cr)*	3

Area II: Mathematics (4 credits)

MATH 190, Trigonometry and Precalculus *Precalculus & Trig or appropriate MATH PLACEMENT*	4

Area III: Natural Science (8 credits)

CHEM 110G, Principles and Applications of Chemistry or CHEM 111 (4 cr.)	4
PHYS 211G, General Physics I (w/Lab)	4

Area IV: Social & Behavioral Sciences (6 or 9 credits*)

Economics, Political Science, Psychology, Sociology, and Anthropology electives *Appropriate approved class from this area 6-9 cr.*	6-9

Area V: Humanities & Fine Arts (6 or 9 credits*)

History, Philosophy, Literature, Art, Music, Dance, Theater, Foreign Language, and Religion electives *Appropriate approved class from this area 6-9 cr.*	6-9

Institution Specific General Education Viewing a Wider World Elective (upper division)	6 credits

PROGRAM SPECIFIC REQUIREMENTS (87 credits)

Mathematics (6 credits)

MATH 235, Calculus for the Technical Student I *or MATH 191 (4 cr.)*	3
MATH 236, Calculus for the Technical Student II *or MATH 192 (4 cr.)*	3

Natural Science (3 credits)

PHYS 212G, General Physics II	3

Technical (15 credits)

C E 450, Engineering Economy and Law	3
Business, Management, Marketing, or Math elective (upper division)	3
Technical Electives (upper division) *Note: The combination of AERT 213 Aerospace Fluid Systems and AERT 214 Aerospace Systems will substitute for one 3 credit technical elective.*	9

Engineering Technology (63 credits)

E T 101, Introduction to Engineering Technology *Credit will be given for the AS or AAS degree at DACC*	1
E T 110, Introduction to Computer-Aided Drafting and Design *DRFT 114 Introduction to Mechanical Drafting/Solid Modeling*	3
E T 120, Computation and Presentation Software *OECS 105 or OECS 227or CS 110 or BCIS 110*	3
E T 182, Digital Logic *ELT 160 Digital Electronics 3cr*	3
E T 190 & 191, Applied Circuits (w/Lab) ELT 110 Electronics I 4cr (3+3p)	4
E T 210, Computer-Aided Design DRFT 214 Advanced Mechanical Drafting/Solid Modeling	2
E T 217, Manufacturing Processes AERT 221 (3 cr.)	3
ET 217L, Manufacturing Processes Lab (AERT 114 and AERT 115) or (MAT 106 and MAT110) (6 cr.)	1
E T 240, Applied Statics	3

E T 262, Software Technology I *OECS 195 Java Programming 3cr.* *or* **OECS 193 C++ Programming 3cr.*	3
E T 302, Manufacturing Data Analysis	3
E T 306, Fundamental and Applied Thermodynamics (w/Lab)	4
E T 308, Fluid Technology (w/Lab)	4
E T 310, Applied Strength of Materials (w/Lab)	4
E T 241, Applied Dynamics	3
E T 328, Kinematics of Machines	3
E T 365, Building Utilities or E T 381, Renewable Energy Technologies	3
E T 396, Heat Transfer and Applications	3
E T 410, Senior Seminar	1
E T 422, Mechanical Measurements+ or E T 402, Instrumentation	3
E T 426, Analysis/Design of Machine Elements	3
E T 435, Senior Design and Project Management	3

This checklist shows that 72 credits from Dona Ana Community College can be transferred into the Mechanical Engineering Technology program at NMSU.

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