Course Articulation between
College of the Canyons
Land Surveying
And
New Mexico State University
For students pursuing a Bachelor of Science degree in Geomatics

Students wishing to begin their studies at College of the Canyons (COC) before transferring to New Mexico State University (NMSU) typically spend four to five semesters and get an AS degree. This is typically followed by four or five semesters at NMSU to get a BS degree. An advisor in ETSE (Engineering Technology and Survey Engineering at NMSU) should be consulted for all transfers. According to NMSU policy for Transfer Undergraduate Students, credits from COC will be evaluated by the College of Engineering, NMSU, after the student has shown acceptable performance at NMSU for two semesters of full-time enrollment. A complete description of the requirements for the degree may be found below and at the link: https://catalogs.nmsu.edu/nmsu/engineering/engineering-technology-surveying/geomatics-bachelor-science-geomatics/

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

Note (1): New Mexico General Education- 32-35 credits of state mandated general education courses. In order to fulfill all of these requirements, the student may be required to take additional classes beyond their AS degree.

Note (2): Math sequences may be taken at COC 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 and preferably Pre-Calculus to permit the easiest transition to NMSU College of Engineering.

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. Students must earn a grade of C- or better in all engineering, technology, math and science courses (including associated prerequisite courses) required for the degree and courses taken to satisfy the general education requirements for Area I-Communications, Area II-Mathematics/Algebra, and Area III-Laboratory Science.
COC courses which transfer to the Geomatics program at NMSU are indicated in *blue italics* in the list below:

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DEGREE: Bachelor of Science in Geomatics
MAJOR: Geomatics
New Mexico State Higher Education Department (HED) Common Core (*25*)

English Composition – Level I
ENGL 101 English Composition (4 units)

English Composition - Level 2
ENGL 103 Critical Reading, Writing and Thinking (3 units)
ENGL 112 Intermediate Composition, Literature, and Critical Thinking (3 units)

Oral Communication
COMS 105 Fundamentals of Public Speaking (3 units)

Area IV: Social/Behavioral Sciences Course (3 credits)

Area V: Humanities (3 credits)

Area VI: Creative and Fine Arts (3 credits)

Program Requirements fulfilling HED Laboratory Science and Math Areas (students can finish all 16 credits at COC)
Phys I & L (4)
PHYSIC 220 Physics for Scientists and Engineers: Mechanics of Solids and Fluids (4 units)

Calc I (4)
MATH 211 Calculus I (5 units)

Calc II (4)
MATH 212 Calculus II (5 units)

Elective Science (4)
Select additional lab science (4 units) – refer to <u>IGETC</u> Area 5 – Physical and Biological Sciences GE checklist for options OR <u>CSU</u> Area B1-Physical Science or B 2 Life Science & B3 Corresponding Lab GE checklist for options

Program Requirements (Students can finish 21 credit out of 21 credit at COC)
Courses accepted to fulfill electives:
Sur101, SUR103, SUR104 and SUR107

Computer Programming (3)
CMPSCI 111 & 111L Introduction to Algorithms and Programming (3 + 1)
Or CMPSCI 132 Introduction to Programming (3)
Or CMPSCI 235 C Programming (3units)

Statistics for Engineers and Scientists (3)
MATH 140 Statistics (4)

Introduction to LIS/GIS (3)
GIS 101 Introduction to GIS (3units)

Basic Computer Drafting (3)*
*This requirement is waived and/or met through completion of Surv 110.

Plane Surveying PS (3)
SURV 102 Advanced Land Surveying (4units)

Survey Drafting Applications (3)
SURV 110 Computer Aided Drafting for Surveyors (3units)

Program Core Courses (students can finish 7-8 credit out of 58 credit)
Linear Algebra or upper division Math course (3)
MATH 214 Linear Algebra (4 units) or Math 213 Calculus III (5 units)

SUR 292 Legal Principles and Boundary Law I (3)
SURV 260 Boundary Control and Legal Principles I (3 units) or
SURV 265 Boundary Control and Legal Principles II (3 units)

For more information, contact:
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Resources:
Link to GE: https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/

Link to Articulation: https://nmsudirect.nmsu.edu/

College of the Canyons

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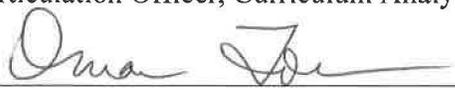
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