

**Articulation Agreement (Undergraduate)**  
**between**  
**New Mexico Military Institute**  
**And**  
**New Mexico Institute of Mining and Technology**

New Mexico Military Institute hereby establishes an Articulation Agreement to facilitate students' transfer from New Mexico Military Institute to Undergraduate Programs at New Mexico Institute of Mining and Technology.

**I. PURPOSE**

- A. This Articulation Agreement formally recognizes that New Mexico Military Institute and New Mexico Institute of Mining and Technology are committed to providing greater educational opportunities and services for students who transfer. This commitment strongly supports the concept of seamless transfer that embraces the principle that transfer students should not be required to repeat competencies already demonstrated.
- B. The purpose of this collaboration is to facilitate the matriculation of New Mexico Military Institute students to an academically challenging baccalaureate degree through New Mexico Institute of Mining and Technology.
- C. New Mexico Institute of Mining and Technology enters into this Articulation Agreement in the spirit of recognizing New Mexico Military Institute as a quality institution with a history of demonstrated excellence delivering high quality educational programs. Each institution, furthermore, was and is dedicated to serving students from all backgrounds, regardless of age, race, color, national origin, gender, disability, or any other classification protected by applicable law in its programs or activities.
- D. Through ongoing communication with New Mexico Military Institute graduates, New Mexico Institute of Mining and Technology will better understand the needs of students who are transferring and cooperate in responding to these needs.

**II. TRANSFER ELEMENTS**

**A. Treatment of Associate Degrees and General Education Core as Admission Criteria**

1. This Articulation Agreement establishes the principle that all applicable articulated Associate Degrees at New Mexico Military Institute transfer to New Mexico Institute of Mining and Technology, allowing New Mexico Military Institute Associate degrees to combine with New Mexico Institute of Mining and Technology's baccalaureate degree. Credits are accepted and applied toward the designated/appropriate college degree(s), if passed with a C or higher. Articulated Associate degrees will be identified, maintained, and available as Appendix A to this Articulation Agreement.
2. New Mexico Military Institute graduates with a minimum cumulative GPA of 2.0, courses numbered 1000 and above, entering under the terms of this Articulation

Agreement will transfer into New Mexico Institute of Mining and Technology as long as the courses apply to their program requirements. Students should be advised that some degree programs at New Mexico Institute of Mining and Technology have competitive admissions or require college-specific admission requirements beyond the University level admission requirements. These college-specific admission requirements are available in the New Mexico Institute of Mining and Technology Policy Handbook located on New Mexico Institute of Mining and Technology's website.

3. New Mexico Military Institute graduates will follow New Mexico Institute of Mining and Technology's transfer process and, therefore, must meet all applicable requirements and deadlines pertaining to application for admission, advising, registration, length of program availability, and payment of tuition and fees. They will abide by the policies and procedures, along with any revisions thereof that apply to all students from that institution.
4. In order to complete the baccalaureate program in a timely manner, students are advised to follow the Transfer Guide for the academic program they plan to pursue at New Mexico Institute of Mining and Technology (See Appendix B). If the student intends to change degree focus upon admission to New Mexico Institute of Mining and Technology, the student may be required to complete some lower division preparation work prior to beginning the program at New Mexico Institute of Mining and Technology.

#### **B. Treatment of New Mexico Military Institute Coursework**

Students who transfer to New Mexico Institute of Mining and Technology with less than an Associate Degree and have not completed the General Education requirements will complete their General Education requirements at New Mexico Institute of Mining and Technology. However, if these students have taken equivalent General Education courses at New Mexico Military Institute, these courses will be accepted toward satisfying General Education requirements at New Mexico Institute of Mining and Technology.

#### **C. Total Number of Transferable Credits**

The determination of how many credit hours New Mexico Institute of Mining and Technology may accept from New Mexico Military Institute programs is subject to accreditations and regulatory requirements. New Mexico Institute of Mining and Technology agrees to provide an Articulation Agreement for New Mexico Military Institute Associate Degrees. After New Mexico Institute of Mining and Technology evaluates the student's transfer credits, New Mexico Institute of Mining and Technology will only apply those transfer credits that fulfill program requirements including general education, electives, and, with college approval, courses in the program major.

#### **D. Evaluation Process**

There will be an evaluation of the partnership supported by this Articulation Agreement every two years. The information obtained from this evaluation will be used to improve the transfer process for the benefit of students.

### **III. OTHER ITEMS RELATED TO THIS ARTICULATION AGREEMENT**

#### **A. Internship and Work Study Agreements**

If applicable to the student's program New Mexico Institute of Mining and Technology will endeavor to provide internship and work-study opportunities for New Mexico Military Institute transfer students. These opportunities will be based on availability and students must be enrolled in a course to be considered eligible. It is understood that internship and work-study employment decisions are made by the employers, not New Mexico Institute of Mining and Technology. Also, applicable U.S. Federal Regulations, INS guidelines and all other laws and regulations will be followed.

#### **B. Creating and Distributing New Mexico Institute of Mining and Technology Materials**

All New Mexico Institute of Mining and Technology-related printed and media materials created by New Mexico Military Institute shall be approved by New Mexico Institute of Mining and Technology prior to their use.

#### **C. Longevity of the Articulation Agreement**

This Articulation Agreement shall be effective immediately upon approval and shall continue in force and effect until terminated by New Mexico Institute of Mining and Technology or New Mexico Military Institute. Immediate termination will occur if either New Mexico Institute of Mining and Technology or New Mexico Military Institute loses their current accreditation status. Termination shall occur upon written notice by the Office of the Chief Academic Officer/ Provost at New Mexico Institute of Mining and Technology. Either party may terminate this Articulation Agreement with a 45 day written notice. If an agreement is terminated due to the loss of accreditation the Articulation Agreement will end retroactive to the date the accreditation status changed. In the event of termination, New Mexico Institute of Mining and Technology agrees to ensure students currently enrolled in a program under this Articulation Agreement will be given the opportunity to complete their degree with New Mexico Institute of Mining and Technology.

#### **D. Opportunities to Expand the Articulation Agreement**

New Mexico Institute of Mining and Technology may choose to expand this Articulation Agreement as mutually beneficial opportunities are presented or in response to the needs that are identified.

### **IV. RESPONSIBILITIES OF New Mexico Institute of Mining and Technology**

New Mexico Institute of Mining and Technology will provide enrollment counseling and/or academic advising to New Mexico Military Institute students upon notification of intent to transfer. Additionally, New Mexico Institute of Mining and Technology will provide the University Policy Handbook, Academic Catalog, and other information to New Mexico Military Institute students to facilitate their understanding of University requirements and academic programs.

New Mexico Institute of Mining and Technology may place New Mexico Military Institute students, interested in attending New Mexico Institute of Mining and Technology, on its mailing list and invite the students to participate in cultural events, social activities, and presentations open to the public.

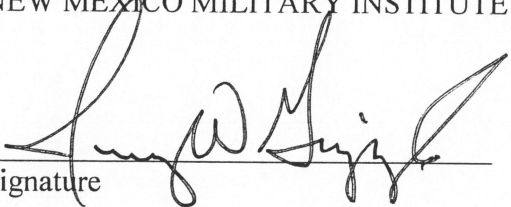
### **V. JOINT RESPONSIBILITIES**

New Mexico Military Institute and New Mexico Institute of Mining and Technology agree to exchange data and documents as agreed that will contribute to the maintenance and improvement of these transfer arrangements, and promote effective cooperation between the two institutions. The Federal Family Educational Rights and Privacy Act (FERPA) governs the disclosure of information about students. The institutions may exchange admissions, grades, and retention data after obtaining appropriate permission from the students involved, if applicable, and in compliance with all federal, state, and local guidelines.

In collaboration with New Mexico Military Institute, the development, distribution, and accuracy of all transfer articulation products (e.g., Transfer Guide) are the responsibility of New Mexico Institute of Mining and Technology.



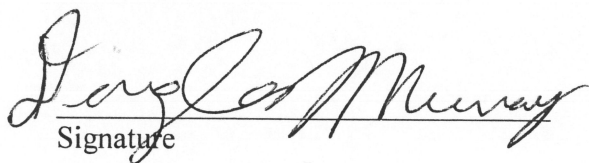
NEW MEXICO MILITARY INSTITUTE

  
Signature

Date:

**Contact Information**

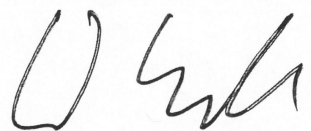
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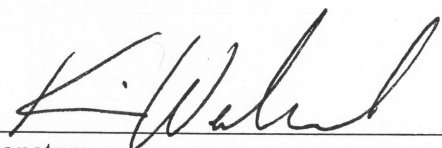
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# Appendix A

## NMT-NMMI 2 + 2 Mechanical Engineering Curriculum

The chart below represents a semester-by-semester schedule that will allow NMMI students to complete a Bachelor of Science in Mechanical Engineering through two years of coursework at NMMI and two years of coursework at NMT. The chart is not a one-to-one correlation of classes from NMMI to NMT.

### New Mexico Military Institute

### New Mexico Institute of Mining and Technology

#### Fall Semester 1

##### NMMI

##### NMT

(3) <b>ENGL 1113</b> Composition I	(3) <b>ENGL 111</b> College Writing: Exposition
(4) <b>MATH 1614</b> Calculus I	(4) <b>MATH 131</b> Calculus & Analytic Geometry I
(4) <b>CHEM 1214</b> General Chemistry I and Lab	(4) <b>CHEM 121</b> General Chemistry I and Lab
(3) <b>ENGR 1453</b> Engineering Graphics & Design	(3) <b>MENG 110</b> Intro Design & Lab
(3) <b>LEAD 1103</b> Intro to Leadership	(3) Social Science Elective

17 credits

17 credits

#### Spring Semester 2

(3) <b>ENGL 1123</b> Composition II	(3) <b>ENGL 112</b> College Writing: Argument and Analysis
(4) <b>CHEM 1224</b> General Chemistry II and Lab	(4) <b>CHEM 122</b> General Chemistry II and Lab
(4) <b>MATH 1624</b> Calculus II	(4) <b>MATH 132</b> Calculus & Analytic Geometry II
(4) <b>MCIS 1814</b> Programming in C++	(5) <b>PHYS 121</b> General Physics I and Lab
(3) Social Science Elective	

18 credits

16 credits

#### Fall Semester 3

(5) <b>PHYS 2215</b> Engineering Physics I and Lab *	(3) <b>MENG 210</b> Soph. Design
(4) <b>MATH 2614</b> Multi-Variable Calculus III #	(4) <b>MATH 231</b> Calculus & Analytic Geometry III#
(3) <b>PHYS 2223</b> Statics	(3) <b>ES 201</b> Statics
(3) History Elective	(4) <b>MATE 202</b> Materials Science and Lab
(3) Humanities Elective I	(3) Humanities Elective

18 credits

17 credits

#Transfer students will be evaluated for Vector Calculus proficiency and a (1) credit Vector Calculus module required for students who need it.

#### Spring Semester 4

(5) <b>PHYS 2225</b> Engineering Physics II and Lab	(5) <b>PHYS 122</b> General Physics II and Lab
(4) <b>MATH 2624</b> Differential Equations	(3) <b>MATH 335</b> Ordinary Differential Equations
(3) <b>ENGL 2113</b> Technical Writing (Humn Elective II)	(3) <b>ES 316</b> Engr. Economics
(3) <b>ES 302</b> Mechanics of Materials ( <i>offered remotely by NMT without Lab</i> )	(4) <b>ES 302</b> Mechanics of Materials and Lab

(3) <b>ES 216</b> Fluid Mechanics ( <i>offered remotely by NMT</i> )	(3) <b>ES 216</b> Fluid Mechanics
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18 credits

18 credits

71 total credits

68 total credits

*\* NMMI is unable to move PHYS 2215 to the Spring Semester 2 due to scheduling issues and interest.*

### NMT Required Courses for Completion of B.S. in Mechanical Engineering:

#### Fall Semester 5

(2) <b>MENG 381</b> Jr. Design Clinic
(3) <b>ES 347</b> Thermo
(3) <b>MENG 304</b> Adv. Str. Matls.
(3) <b>ES 303</b> Dynamics
(3) <b>MENG 305</b> Engr. Analysis
(1) <b>MENG 302L</b> Mech. Mate. Lab

15 credits

#### Spring Semester 6

(2) <b>MENG 382</b> Jr. Design Clinic II
(3) <b>ES 332</b> Electrical Engr.
(3) <b>ES 350</b> Heat & Mass
(4) <b>MATE 202</b> Materials and Lab
(3) <b>MATH 337</b> Engr. Math
(3) <b>ES 316</b> Engr. Economics

18 credits

#### Fall Semester 7

(3) <b>MENG 481</b> Sr. Design Clinic I
(3) <b>MENG 405</b> Controls and Lab
(3) <b>MENG 441</b> Dynamics and Vib
(3) <b>MENG 451</b> Machine Design
(3) <b>MENG 421</b> Finite Elem. Analysis and Lab
(3) Humanities/Social Science Elective

18 credits

#### Spring Semester 8

(3) <b>MENG 482</b> Sr. Design Clinic II
(3) <b>MENG 483</b> Mechatronics and Lab
(3) <b>MENG 431</b> Fluid-Thermal and Lab
(3) Humanities/Social Science Elective
(3) Tech Elective

15 credits

71 NMMI credits + 66 NMT credits = 137 total credits

## Appendix B

### New Mexico Military Institute to New Mexico Tech Transfer Guide

The NMMI courses below are eligible for transfer to NMT if the student earns a grade of C or better.  
Students should refer to the NMT course catalog for a complete list of course requirements for NMT degrees.

NMMI Course	NMT Equivalent Course
<b>Communications</b>	
ENG 1113 (3) - Freshman Composition	ENGL 111 (3) - College Writing: Exposition
ENG 1123 (3) - Freshman Composition II	ENGL 112 (3) - College Writing: Argument and Analysis
ENG 2113^ (3) - Technical Writing^	ENGL 341^ (3) - Technical Writing^
<b>Mathematics</b>	
MATH 1113 (3) - College Algebra	MATH 101 (3) - College Algebra
MATH 1604 (4) - Pre-Calculus	MATH 103 (3) - Pre-Calculus
MATH 1213 (3) - Trigonometry	MATH 104 (3) - Trigonometry
MATH 1273 (3) - Calculus for Business & Social Science	General Elective
MATH 1614 (4) - Calculus I	MATH 131 (4) - Calculus & Analytic Geometry I
MATH 1624 (4) - Calculus II	MATH 132 (4) - Calculus & Analytic Geometry II
MATH 2313 (3) - Introduction to Statistics	MATH 283 (3) - Introduction to Applied Statistics
MATH 2614 (4) - Calculus III	MATH 231 (4) - Calculus & Analytic Geometry III
MATH 2624 (4) - Differential Equations	MATH 335 (3) - Ordinary Differential Equations
<b>Natural Sciences</b>	
BIOL 1214 & 1210L (4) - Principles of Biology I	BIOL 111 & 111L (4) - General Biology
BIOL 1224 & 1220L (4) - Principles of Biology II	BIOL 112 & 112L (4) - General Biology II
BIOL 2224 & 2220L (4) - Microbiology	BIOL Elective (4)
BIOL 2233 (3) - Science of Nutrition	BIOL Elective (3)
BIOL 2254 & 2250L (4) - Insects and Man	BIOL Elective (4)
BIOL 2444 & 2240L (4) - Human Physiology	under evaluation
CHEM 1214 & 1210L (4) - General Chemistry I	CHEM 121 & 121L (4) - General Chemistry I & Lab
CHEM 1224 & 1220L (4) - General Chemistry II	CHEM 122 & 122L (4) - General Chemistry II & Lab
CHEM 2114 & 2110L (4) - Allied Health Chemistry	General Elective (4) , evaluated, no equivalent
GEOL 1214 & Lab (4) - Physical Geology	ERTH 101 & 103L (4) - Earth Processes
PHYS 2215 with 2210L (5) - Engineering Physics I	PHYS 121 & 121L (5) - General Physics I & Lab
PHYS 2225 with 2220L (5) - Engineering Physics II	PHYS 122 & 122L (5) - General Physics II & Lab
<b>Humanities</b>	
ARBC 2114 (4) - Intermed Arabic I	HUMA REQ
ARBC 2124 (4) - Intermed Arabic II	HUMA REQ
ARTS 2113 (3) - Art History I	ART 272 (3) - Art History
COMM 1113 (3) - Public Speaking	COMM 242 (3) - Public Speaking
COMM 2103 (3) - Intro to Film Studies	HUMA REQ
HIST 1113 (3) - Development of Western Civilization I	HIST 151 (3) - World History I



HIST 1123 (3) - Development of Western Civilization II	HIST 152 (3) - World History II
HIST 2113 (3) - History of the United States I	HIST 141 (3) - American History to 1865
HIST 2123 (3) - History of the United States II	HIST 142 (3) - American History since 1865
MUSC 1303 (3) - Music Appreciation	MUS 110 (3) - Music Appreciation
MUSC 1403 (3) - Fundamentals of Music Theory	MUS 105 (3) - Fundamentals of Music
<b>Social Science</b>	
ANTH 2113 (3) - Introduction to Cultural Anthropology	ANTH 101 (3) - Introduction to Cultural Anthropology
ECON 2113 (3) - Principles Problems of Macroeconomics	ECON 251 (3) - Principles of Macroeconomics
ECON 2123 (3) - Principles Problems of Microeconomics	ECON 252 (3) - Principles of Microeconomics
LEAD 1103 (3) - Intro to Leadership	SS Req (3) - Social Science Requirements
PLSC 1113 (3) - US Politics and Government	PS 171 (3) - American Government
PSYC 1113 (3) - General Psychology	PSY 121 (3) - General Psychology
<b>Other Courses</b>	
ASTR 1114 & 1110L (4) - Astronomy	General Elective (4)
ENGR 1103 (3) - Introduction to Engineering	ES 110 (3) - Introduction to Engineering
ENGR 1453 (3) - Engineering Graphics I	ES/MENG 110 (3) - Intro to Eng/Intro to Mech Eng
GEOL 1214 & 1210L (4) - Physical Geology	ERTH 101 & 103L (4) - Earth Processes
MCIS 1813 (3) - Programming in C++	ES 111 (3) - Computer Programming for Engineers
MCIS 1814 & 1810L (4) - Computer Science I	CSE/IT 107 (4) - Intro to Comp Prog using Python
MCIS 1824 & 1820L (4) - Computer Science II	General Elective, encouraged to take CSE 122 challenge exam

Transfer credit must be passed with "C" or higher. Official transcripts are required for credit to be awarded.

Course may not be repeated at another university if it was attempted at NMT, *unless* student WITHDREW/AUDITED it at NMT

# Appendix C

## Transfer Module for General Engineering

Minimum of 66 credits total

(May form the basis for an AS in General Engineering degree offered by community colleges, branch campuses, or universities.)

The transfer module described here is designed to provide students at New Mexico's colleges and universities a set of courses that will articulate into the four-year engineering programs at the University of New Mexico, New Mexico State University, and New Mexico Tech. Because there are over ten different engineering disciplines (for example, electrical engineering, mechanical engineering, mining engineering, etc.) offered at the NM four-year universities, each with its own distinct freshman/sophomore curriculum, it is impossible to create a single transfer module that will articulate to all engineering programs. Even within the same discipline, each four-year school has a different curriculum during the first two years. For example, the electrical engineering curricula at UNM, NMSU, and Tech differ during the first two years. This underscores the importance of advising in ensuring that students enrolled at two-year institutions recognize what the requirements will be for the engineering program and university where they intend to enroll. With strong advising, students completing this module before transferring to UNM, NMSU, or NMTech will have the first two years of their engineering curriculum completed, assuming that the entire module is offered on the students' original campus.

This transfer module will also form the basis for an AS degree in general engineering, to be offered by interested colleges and universities. It is recognized that not every school in New Mexico will have the resources or student interest to offer all of the courses listed in this module, but it is hoped that resource sharing among the schools and distance delivery methods for these courses will overcome these problems.

The NM Engineering Articulation Task Force will meet at least annually to review this transfer module and to recommend any changes. The Task Force will also appoint sub-committees tasked with developing competencies for each of the lower division engineering courses listed in the engineering articulation plan: Intro to Engineering, Statics, Dynamics, Circuits I and II, Digital Design, Engineering Graphics, and Thermodynamics. The subcommittees will also make recommendations to the task force regarding syllabi and instructor qualifications for these courses.

Each of the engineering schools in New Mexico (UNM, NMSU, and NMTech) will post the transfer module on their web sites along with a description of how the module articulates into each of their engineering programs. This provides students at other NM colleges the opportunity to plan their

academic programs to ensure maximum transferability of their courses to their destination university. Information on how the NM engineering module articulates to each engineering program in the state will also be provided to the NM HED for posting on their web site.

## **New Mexico Engineering Transfer Module**

### **Engineering General Education Common Core (36 credits)**

(This is similar to the NM General Education core, but specifies the math, science, and communications courses required by engineering programs in NM.)

#### **Area I: Communications (9 credits)**

Written Communication	6
Technical Writing or Oral Communication <sup>1</sup>	3

#### **Area II: Mathematics (4 credits)**

Calculus I (Trigonometry-based courses designed for students pursuing degrees in engineering, computer science, or physical sciences)	4
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#### **Area III: Natural Science (8 credits)**

General Chemistry I with lab (for engineering and science majors)	4
Engineering Physics I with lab (Calculus based)	4

#### **Area IV: Social & Behavioral Sciences<sup>2</sup>**

Economics, Political Science, Psychology, Sociology, and Anthropology	6-12
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Area V: Humanities & Fine Arts<sup>2</sup>

History, Philosophy, Literature, Art, Music, Dance, Theater, Foreign Language, and Religion	6-12
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**Program Specific Graduation Requirements (choose approximately 30 credits from this group in consultation with your academic advisor)**

Mathematics

Calculus II <sup>3</sup> (For engineering and science)	4
Calculus III <sup>3</sup> (For engineering and science)	3-4
Differential Equations <sup>3, 4</sup>	3-4
Linear Algebra <sup>4</sup>	3
Probability and Statistics <sup>4</sup> (Designed for engineering and science majors)	3

Natural Science

General Chemistry II with lab (For science and engineering majors)	4
Engineering Physics II with lab (Calculus based)	4

Engineering

Introduction to Engineering	1-3
Statics	3
(+ lab)	1-2
Circuits I	3
(+ lab)	1-2
Circuits II	3
(+ lab)	1-2

Digital Design	3
(+ lab)	1-2
Dynamics	3
(+ lab)	1-2
Engineering Graphics <sup>5</sup>	3
Thermodynamics <sup>4</sup>	3

#### Computing (3 credits)<sup>6</sup>

Introduction to computer programming using MATLAB	3
Introduction to computer programming using C	3

1 Although the NM General Education Core includes oral communication, the engineering core replaces this with the option of taking technical writing in place of oral communication. This is because accreditation requirements for engineering programs (accreditation is through ABET, the Accreditation Board for Engineering and Technology) mandate substantial oral communication content which is incorporated by most engineering programs into lab and design courses throughout the curriculum. The choice between oral communication and technical writing depends on which engineering program and university the student chooses to attend.

2 Students must complete at least 15 total credits from Area IV and V, with at least 6 credits from each area. Engineering degree programs at NM universities may require specific choices of courses from Areas IV and V, and/or specific numbers of credit hours from each area.

3 Required by all engineering programs in NM.

4 Transfers as lower division credit, if offered at a two-year campus.

5 Engineering BS programs may have specific requirements for AutoCAD, ProEngineer, or other software platforms for this course.

6 Choice between these two courses depends on intended major. Consult with advisor.