MECHANICAL DRAFTING AND SOLID MODELING -ASSOCIATE OF APPLIED SCIENCE

Doña Ana Community College 2023-2024 Catalog (60 credits)

Title

Prefix

NOTE: Students must earn a final grade of C- or better in all required DRFT courses/Technical Requirements/Electives and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

General Education				
Select one course from four of the following six content areas for a total of 12-14 credits ^{1, 2}				
J 1	ourses from Areas I, II and III; students must n the remaining areas to complete General ts.			
Area I: Communications - English Composition Level 1				
ENGL 1110G	Composition I 3			
Area II: Mathematics				
MATH 1220G	College Algebra ^{3, 4}			
Area III: Laboratory Sciences				
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab ³			
General Education Elec Communications	tive - Area I: Communications - Oral			
COMM 1115G	Introduction to Communication ³	3		
Core Requirements				
MATH 1250G	Trigonometry & Pre-Calculus ³	4		
Major Requirements				
Technical Requirements				
DRFT 109	Computer Drafting Fundamentals	3		
DRFT 114	Introduction to Solid Modeling	3		
DRFT 124	Introduction to Geometric Dimensioning and Tolerancing	3		
DRFT 164	Intermediate Mechanical Drafting/Solid Modeling	3		
DRFT 214	Advanced Solid Modeling	3		
DRFT 288	Portfolio Development	3		
MAT 102	Print Reading for Industry	3		
MAT 105	Introduction to Manufacturing	3		
Advisor approved electives (AERT, DRFT, ENGR, E T, MAT, M E, or WELD)				
Total Credits		60		

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- ² See the General Education (http://catalogs.nmsu.edu/dona-ana/ general-education-and-transfer-options/transfer-new-mexicoinstitutions/) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- ⁴ MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.

(60 credits)

Credits

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

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Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Semester 1		Credits
Area I: Communications - English Composition Level 1		
ENGL 1110G	Composition I	
DRFT 109	Computer Drafting Fundamentals	3
MAT 102	Print Reading for Industry	3
MAT 105	Introduction to Manufacturing	3
	Credits	13
Semester 2		
Area II: Mathematics		3
MATH 1220G	College Algebra	
General Education - Choose one course from NM General Education Areas IV, V, or VI in the NMSU/DACC Catalog.		3
DRFT 114	Introduction to Solid Modeling	3
DRFT 124	Introduction to Geometric Dimensioning and Tolerancing	3
DRFT 164	Intermediate Mechanical Drafting/Solid Modeling	3
	Credits	15
Semester 3		
SUMMER		
General Education Elective - Area I: Communications - Oral Communications		3
COMM 1115G	Introduction to Communication	
Advisor Approved Elective (AERT, DRFT, ENGR, E T, MAT, M E, or WELD)		3
	Credits	6
Semester 4		
Area II: Mathematics		4
MATH 1250G	Trigonometry & Pre-Calculus	

DRFT 214	Advanced Solid Modeling	3
Advisor-Approved Elective (AERT, DRFT, ENGR, E T, MAT, M E, or WELD)		
Advisor-Approved Elective (AERT, DRFT, ENGR, E T, MAT, M E, or WELD)		
Credits		13
Semester 5		
Area III: Laboratory Sciences		4
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
DRFT 288	Portfolio Development	3
Advisor-Approved Elective (AERT, DRFT, ENGR, E T, MAT, M E, or WELD)		3
Advisor-Approved Elective (AERT, DRFT, ENGR, E T, MAT, M E, or WELD)		3
	Credits	13
	Total Credits	60