

PROCEDURAL GUIDANCE MESSAGE

Name and Grade of Action Officer MSGT DAMIAN M. ARMIJO				Office Symbol RSOPA		Series Number 605		Signature of Action Officer			Review Date	
	To	Action	Initials/Date		To	Action	Initials/Date		To	Action	Initials/Date	
1	RSOP/ CCU	Coord	RSOP _____ CCU _____	5				9				
2	JA	Coord	JA _____	6				10				
3	RSO/ CCU	APPR	RSO _____ CCU _____	7				11				
4	RSOPA	X-MIT	_____	8				12				

FROM: HQ AFRS/RSO

SUBJECT: 3E531 Math Requirements

TO: All Operations/MEPS Personnel

- The National Science Foundation has tested a Mathematics I/II/III curriculum in several schools across the country. It appears this curriculum may eventually replace the standard Algebra, Geometry, and Trigonometry format we require for entry into the 3E5X1 field. Based on a review of the curriculum, students must successfully complete Mathematics I, II, and III to fulfill the Algebra, Geometry, and Trigonometry requirement (respectively).
- If Mathematics I, II, and III have not been completed, a MEPS Liaison transcript review will need to be accomplished. Look for course descriptions containing these subjects or topics:
- ALGEBRA qualification includes the following topics: Basic operations on real numbers, operations with polynomials, factoring polynomials, solving linear and quadratic equations and inequalities, the quadratic formula, graphing linear and quadratic equations and inequalities, rational expressions, rational exponents, square roots, operations with radical expressions, and an introduction to right triangle trigonometry.
- TRIGONOMETRY qualification includes the following topics: Mathematical systems, solving linear and quadratics equations and inequalities, graphing, algebraic fractions, functions, and conics.
- GEOMETRY qualification includes the following topics: Definitions, properties and measurements of geometric figures, properties of parallel lines, rotations, translations, proofs, study of the Pythagorean Theorem, basic constructions and coordinate geometry.
- Examples of courses that generally match one or more of the requirements: College prep math 1 & 2 (covers algebra & trig requirement), algebra I (covers algebra), plane geometry (covers geometry requirement), algebra II (covers algebra and trig requirement if trig based), pre-calculus (covers algebra & trig requirement if trig based calculus), trigonometry (covers trig requirement), analytic geometry (covers geometry only), calculus (covers algebra and trig if trig based calculus) and math analysis (covers algebra only).
- Examples of courses that generally do not meet any of the requirements: Computer math, computer programming, consumer math, computer science, pre-algebra, basic math, general math, terminal math, business math, accounting and applied mathematics.
- If you have any questions about applicant qualifications for the 3E5X1 AFSC, you must submit a transcript for review using the AFRISS workflow (other waiver) through the chain of command to the functional manager. Ensure you send copies of the applicant's transcripts as well as a complete math curriculum description from the school attended.

//////////Signed//////////

JAMES R. HOLADAY, Colonel, USAF
Chief, Operations Division