LEHMAN COLLEGE
OF THE
CITY UNIVERSITY OF NEW YORK

DEPARTMENT OF MATHEMATICS

CURRICULUM CHANGE

1. **Type of change:** Experimental Course

2.

Department(s)	Mathematics
Career	[x] Undergraduate [ ] Graduate
Academic Level	[x] Regular [ ] Compensatory [ ] Developmental [ ] Remedial
Subject Area	Mathematics
Course Prefix & Number	MAT 108
Course Title	Trigonometry
Description	Unit Circle Trigonometry, Radians, Graphing Trigonometric Functions, Inverse Trigonometric functions, Trigonometric Identities, Laws of Sines and Cosines, and Applications
Pre/ Co Requisites	Placement by the Department of Mathematics
Credits	2
Hours	2
Liberal Arts	[x] Yes [ ] No
Course Attribute (e.g. Writing Intensive, WAC, etc)	
General Education Component	__X_ Not Applicable ____ Required ____ English Composition ____ Mathematics ____ Science ____ Flexible ____ World Cultures ____ US Experience in its Diversity ____ Creative Expression ____ Individual and Society ____ Scientific World

3. **Rationale:** The Department of Mathematics currently has no course offering students a thorough and rigorous treatment of trigonometry. MAT 108 fills this need.

4. **Learning Outcomes (By the end of the course students will be expected to):**
   1. Use the unit circle to determine the values of trigonometric functions
   2. Evaluate and Graph all six Trigonometric Functions
   3. Work with Inverse Trigonometric functions: Arcsin, Arccos, Arctan
   4. State and apply trigonometric identities
   5. Apply the Law of Sines and the Law of Cosines
   6. Solve real-world problems using Trigonometry

5. **Date of Departmental Approval:** March 22, 2018