HOLMES COMMUNITY COLLEGE
COURSE SYLLABUS
Revised 02/14/2022

MAT 1313   <u>College Algebra</u>   **3 CREDIT HOURS**

I.   **<u>Catalog Description:</u>** **MAT 1313 – College Algebra (Prerequisite: MAT 1233 with a C or appropriate placement score for MAT 1313).** This course includes the following topics with applications: inequalities; functions; linear and quadratic equations, and their graphs; rational, radical, and higher-order equations; polynomial and rational functions; logarithmic and exponential functions; systems of equations. Three hours lecture. Three hours credit.

II.   **<u>Student Learning Outcomes:</u>**
Upon completion of the course, the student will be able to:
A. Solve inequalities.
B. Perform operations and compositions of functions; find inverses of functions.
C. Graph linear and quadratic equations.
D. Solve linear, quadratic, rational, radical, higher-order, exponential and logarithmic equations.
E. Analyze polynomial, rational, exponential and logarithmic functions.
F. Solve systems of equations.

III.   **<u>Methods of Evaluation:</u>**
Student performance will be evaluated through homework assignments, quizzes, major tests, laboratory exercises and comprehensive departmental final exam (to count at least 20% of the final average).
Grading Scale: A.....90 – 100   B.....80 – 89   C.....70 – 79   D.....60 – 69   F.....Below 60

IV.   **<u>Resources:</u>**
College Algebra, Blitzer. Pearson Publishing Company includes MyMathLab component. Instructor-made supplemental handouts
Model TI 30X IIS Scientific Calculator is required. Graphing calculators are NOT permitted. The official mode of communication at Holmes Community College is via email through the Student portal. Students are responsible for checking their Holmes email for announcements, assignments, etc.

V.   **<u>Laboratory Topics:</u>**
No laboratory component.

VI.   **<u>Class Policies and Procedures:</u>**
To be determined by individual instructors in keeping with the *Policy and Procedures Guide* and *Bulletin* of Holmes Community College.

ADA Policy

Holmes Community College through the Office of Disability Support Services (DSS) provides reasonable accommodations for students with disabilities. DSS verifies eligibility for accommodations and works with eligible students to develop and coordinate plans to provide those accommodations. DSS is committed to ensuring equal access to a quality education for qualified students with disabilities through the provision of reasonable academic accommodations and auxiliary aids which support the College standards and academic integrity.

The Office of Disability Support Services is committed to creating a positive campus environment where students with disabilities are encouraged to pursue careers on the basis of personal interest and ability. DSS is a non-fee generating program designed to meet the unique needs of HCC students with disabilities. Reasonable accommodations are offered in accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA).

DSS staff may be contacted at (662) 472-9088.