MAC: MATH: CALC/PRE-CALC

Courses                      Credit(s)  Contact  Lab
MAC 1105. COLLEGE ALGEBRA.  3          3        0

COLLEGE ALGEBRA Prerequisite: Minimum grade of C in MAT 1033C or appropriate score on an approved assessment. Course based on the study of functions and their role in problem solving. Topics include graphing, the linear, quadratic, and exponential families of functions, and inverse functions. Students will be required to solve applied problems and communicate their findings effectively. Technology tools will be utilized in addition to analytical methods. Gordon Rule course. Minimum grade of C required if MAC 1105 is used to satisfy Gordon Rule and general education requirements.

MAC 1105H. COLLEGE ALGEBRA - HONORS.  3          3        0

COLLEGE ALGEBRA - HONORS Prerequisite: Minimum grade of C in MAT 1033C or either appropriate score on an approved assessment. Course based on the study of functions and their role in problem solving. Topics include graphing, the linear, quadratic, and exponential families of functions, and inverse functions. In addition, course content will satisfy one honors program learning outcome. Students will be required to solve applied problems and communicate their findings effectively. Technology tools will be utilized in addition to analytical methods. Gordon Rule course. Minimum grade of C required if MAC 1105H is used to satisfy Gordon Rule.

MAC 1114. COLLEGE TRIGONOMETRY.  3          3        0

COLLEGE TRIGONOMETRY Prerequisite: Minimum grade of C in MAC 1105 or an appropriate score on an approved assessment. Topics include a symbolical, graphical and numerical analysis of trigonometric functions; solutions of plane triangles and vectors. Applications emphasizing connections with other disciplines and with the real world will be included. Technology tools will be utilized in addition to analytical methods. Gordon Rule course. Minimum grade of C required if MAC 1114 is used to satisfy Gordon Rule and general education requirements.

MAC 1140. PRECALCULUS ALGEBRA.  3          3        0

PRECALCULUS ALGEBRA Prerequisite: Minimum grade of C in MAC 1105 or appropriate score on an approved assessment. Algebra preparation for the calculus sequence. Topics include a symbolical, graphical, and numerical analysis of polynomials, exponential, logarithmic, power, and rational functions; matrices, sequences, induction, binomial theorem and conic sections. Applications emphasizing connections with other disciplines and with the real world will be included. Technology tools will be utilized in addition to analytical methods. Gordon Rule course. Minimum grade of C required if MAC 1140 is used to satisfy Gordon Rule and general education requirements.

MAC 2233. CALCULUS FOR BUSINESS AND SOCIAL SCIENCE.  3          4        0

CALCULUS FOR BUSINESS AND SOCIAL SCIENCE Prerequisite: Minimum grade of C in MAC 1105 or appropriate score on an approved assessment. Introduction to calculus with applications to business and social science. Topics include differentiation and integration of algebraic, exponential and logarithmic functions, rates of change, curve sketching, and applications of the derivative and integration. Gordon Rule course. Minimum grade of C required if MAC 2233 is used to satisfy Gordon Rule and general education requirements.

MAC 2233H. CALCULUS FOR BUSINESS AND SOCIAL SCIENCE.  3          4        0

CALCULUS FOR BUSINESS AND SOCIAL SCIENCE Prerequisite: Minimum grade of C in MAC 1105 or appropriate score on an approved assessment. Introduction to calculus with applications to business and social science. Topics include differentiation and integration of algebraic, exponential and logarithmic functions, rates of change, curve sketching, and applications of the derivative and integration. Gordon Rule course. Minimum grade of C required if MAC 2233 is used to satisfy Gordon Rule and general education requirements.