



| COURSE \# | SLO |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| MATH 110 |  | A student will be able to categorize intermediate algebra problems and use appropriate theorems, formulas, and algorithms to solve them. | $\begin{gathered} \text { ASP, } \\ \text { AER } \\ \text { (F08); } \\ \text { ASP } \\ \hline \end{gathered}$ | X | X |  |  |  |  |  |  |  |  |  |
|  |  | A student will be able to use the appropriate technology to solve problems requiring intermediate algebra. |  |  |  |  |  |  |  | X |  |  |  |  |
|  |  | A student will be able to formulate, analyze, and differentiate mathematical functions numerically, graphically, and symbolically at the intermediate algebra level and have the ability to transition between these representations. |  |  |  | X | X |  |  |  |  |  |  |  |
|  |  | A student will be able to communicate the mathematical process and assess the validity of the solution. |  |  |  |  |  | X |  |  |  |  |  | X |
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| MATH 110L |  | A student will be able to categorize intermediate algebra problems and use appropriate theorems, formulas, and algorithms to solve them. |  |  | We are not offering this class during budget crisis. |  |  |  |  |  |  |  |  |  |
|  |  | A student will be able to use the appropriate technology to solve problems requiring intermediate algebra. |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | A student will be able to formulate, analyze, and differentiate mathematical functions numerically, graphically, and symbolically at the intermediate algebra level and have the ability to transition between these representations. |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | A student will be able to communicate the mathematical process and assess the validity of the solution. |  |  |  |  |  |  |  |  |  |  |  |  |
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| MATH 120 |  | A student will be able to employ both inductive and deductive reasoning appropriately. |  |  | X | X |  |  |  |  |  |  |  |  |
|  |  | A student will be able to construct visual representations of certain problems and then analyze those constructs to attain a solution. |  |  |  |  | X | X |  |  |  |  |  |  |
|  |  | A student will be able to identify patterns in observations presented in a problem and then predict other outcomes using the patterns they identified. |  |  |  |  |  |  |  |  | $X$ | X |  |  |
|  |  | A student will be able to employ logic in solving a problem to arrive at a conclusion. |  |  |  |  |  |  | X | X |  |  |  |  |
|  |  | A student will be able to categorize given problems and then employ the correct procedures to solve the problems. |  |  |  |  |  |  |  |  |  |  | X | X |







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| MATH 281 |  | A student will be able to use rectangular, polar, parametric, cylindrical and spherical coordinates to solve a variety of integrals and associated application problems. |  |  | X not done |  | X |  |  |  |  |  |  |  |  |
|  |  | A student will be able to analyze, graph and solve equations related to multi-variable functions. |  |  |  | X not done |  |  | X |  |  |  |  |  |  |
|  | 3 | A student will be able to evaluate, interpret and apply higher order partial derivatives. |  |  | X not done |  | X not done | X |  |  |  |  |  |  |  |
|  |  | A student will be able to analyze and interpret physical examples of vector fields and vector functions. |  |  |  | X not done |  |  | X |  |  |  |  |  |  |
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| MATH 284 |  | A student will be able to characterize and solve a system of equations, and determine types of solutions and the existence of a solution. |  |  |  |  |  | X |  |  |  |  |  |  |  |
|  |  | A student will be able to classify matrices and their properties. |  |  |  |  |  |  |  | X |  |  |  |  |  |
|  |  | A student will be able to demonstrate and analyze the use of matrix algebra with its associated properties. |  |  |  |  |  |  |  |  |  | X |  |  |  |
|  | $4$ | A student will be able to demonstrate and analyze the use of the determinant with its associated properties. |  |  |  |  |  | X |  |  |  |  |  |  |  |
|  |  | A student will be able to demonstrate and analyze the use of vector spaces, linear transformations, eigenvalues and eigenvectors. |  |  |  |  |  |  |  | X |  |  |  |  |  |
|  |  | A student will be able to analyze, identify, and use appropriate methods, definitions, and techniques in solving application problems. |  |  |  |  |  |  |  |  |  | X |  |  |  |
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| MATH 285 |  | A student will be able to categorize differential equations and use appropriate theorems, formulas, and algorithms to solve them. |  |  |  |  |  |  | X |  |  |  |  |  |  |
|  |  | A student will be able to use the appropriate technology to solve problems requiring differential equations. |  |  |  |  |  |  |  |  | X |  |  |  |  |
|  |  | A student will be able to formulate, analyze, and differentiate mathematical conceptions requiring differential equations and manipulate them numerically, graphically, and symbolically as well as have the ability to transition between these representations. |  |  |  |  |  |  | X |  |  |  |  |  |  |
|  |  | A student will be able to communicate the mathematical process and assess the validity of the solution. |  |  |  |  |  |  |  |  | X |  |  |  |  |
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