

Mathematics – Advanced Mathematical Modeling

<p>Developing College and Career Skills</p> <ul style="list-style-type: none"> Develop and apply skills used in college and careers, including reasoning, planning and communication, to make decisions and solve problems in applied situations. 	<p>Finance</p> <ul style="list-style-type: none"> Create and analyze mathematical models to make decisions related to earning, investing, spending and borrowing money.
<p>Probability</p> <ul style="list-style-type: none"> Use basic rules of counting and probability to analyze and evaluate risk and return in the context of everyday situations. 	<p>Statistics</p> <ul style="list-style-type: none"> Make decisions based on understanding, analysis and critique of reported statistical information and summaries.
<p>Modeling</p> <ul style="list-style-type: none"> Analyze numerical data in everyday situations using a variety of quantitative measures and numerical processes. 	<p>Networks</p> <ul style="list-style-type: none"> Use a variety of network models represented graphically to organize data in quantitative situations, make informed decisions, and solve problems.
<p>Social Decision Making</p> <ul style="list-style-type: none"> Analyze the mathematics behind various methods of ranking and selection and consider the advantages/disadvantages of each method. 	<p>Geometry</p> <ul style="list-style-type: none"> Solve geometric problems involving inaccessible distances. Use vectors to solve applied problems.