

## Integrated Support for Non-Algebra Pathway

**MATH 061**

**Fall 2025**



This course is designed to be paired with a college-level non-algebra sequence mathematics course to support underprepared students. Students review the skills necessary for success in the associated college-level course in an ongoing as-needed just-in-time fashion. Topics include: numeracy, basic data analysis, proportional reasoning, an introduction to algebraic expressions and algebraic reasoning, and linear functions. Note: credits earned in this course cannot be applied toward graduation. Corequisite: MATH154S Topics in Mathematics with Integrated Support or MATH158S Introduction to Statistics with Integrated Support.

| COURSE OUTCOMES  | OUTCOMES ACTIVITIES   | ASSESSMENT TOOLS  |
|--|---|---|
| At the end of this course, students will be able to  |   |   |
| Successfully complete MATH154S Topics in Mathematics with Integrated Support or MATH158S Introduction to Statistics with Integrated Support. | 1. Review prerequisite knowledge in an as needed, just-in-time fashion.   | 2. Practice Problem Assignments (QL)<br>3. Weekly Quizzes (QL)<br>4. Chapter Exams (QL)<br>5. Projects (QL)<br>6. Cumulative Final Exams (QL) |
| Explain information presented in mathematical forms (e.g., equations, graphs, diagrams, tables, words)                                       | 1. Interpret the graph of a linear function.<br>2. Solve appropriate real-world application problems.   | 1. Practice Problem Assignments (QL)<br>2. Weekly Quizzes (QL)<br>3. Chapter Exams (QL)<br>4. Projects (QL)<br>5. Cumulative Final Exams (QL) |
| Convert relevant information into various mathematical forms (e.g., equations, graphs, diagrams, tables, words)                              | 1. Translate English statements into algebraic expressions and equations.<br>2. Connect the table-of-values, graph, and equation representations of linear equations.<br>3. Model real-world problems using equations and graphs. | 1. Practice Problem Assignments (QL)<br>2. Weekly Quizzes (QL)<br>3. Chapter Exams (QL)<br>4. Projects (QL)<br>5. Cumulative Final Exams (QL) |
| Perform arithmetic and algebraic calculations (e.g., adding fractions, factoring quadratic expressions, solving quadratic equations).        | 1. Review arithmetic and prealgebra calculations such as adding fractions.  | 1. Practice Problem Assignments (QL)<br>2. Weekly Quizzes (QL)<br>3. Chapter Exams (QL)<br>4. Projects (QL)                                   |

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|--|--|---|
|  | <ol style="list-style-type: none"> <li>2. Review introductory algebra concepts such as solving and graphing linear equations.</li> <li>3. Review intermediate algebra concepts such as factoring quadratic expressions and solving quadratic equations.</li> </ol> | <ol style="list-style-type: none"> <li>5. Cumulative Final Exams (QL)</li> </ol>  |
| Make judgements and draw appropriate conclusions based on the quantitative analysis of data, while recognizing the limits of this analysis.                            | <ol style="list-style-type: none"> <li>1. Solve real world applications problems.</li> </ol>   | <ol style="list-style-type: none"> <li>1. Practice Problem Assignments (QL)</li> <li>2. Weekly Quizzes (QL)</li> <li>3. Chapter Exams (QL)</li> <li>4. Projects (QL)</li> <li>5. Cumulative Final Exams (QL)</li> </ol> |
| Make and evaluate important assumptions in estimation, modeling, and data analysis   | <ol style="list-style-type: none"> <li>1. Solve real world applications problems.</li> </ol>   | <ol style="list-style-type: none"> <li>1. Practice Problem Assignments (QL)</li> <li>2. Weekly Quizzes (QL)</li> <li>3. Chapter Exams (QL)</li> <li>4. Projects (QL)</li> <li>5. Cumulative Final Exams (QL)</li> </ol> |
| Express quantitative evidence in support of the argument or purpose of work (in terms of what evidence is used and how it is formatted, presented, and contextualized) | <ol style="list-style-type: none"> <li>1. Solve real world applications problems.</li> </ol>   | <ol style="list-style-type: none"> <li>1. Practice Problem Assignments (QL)</li> <li>2. Weekly Quizzes (QL)</li> <li>3. Chapter Exams (QL)</li> <li>4. Projects (QL)</li> <li>5. Cumulative Final Exams (QL)</li> </ol> |

\*\*Indicate the Core Competencies that apply to the outcomes activities and assessment tools: Quantitative Literacy (QL), Information Literacy (IL), Critical and Creative Thinking (CCT)