

## QUANTITATIVE REASONING PLACEMENT

### Quantitative Reasoning (QR) Pathway – Liberal Arts Mathematics and Technical Math Courses

➤ Liberal Arts Mathematics – Transfer Course

Course	ACT Score	KALG Score	KMATH Score	COMPASS Score	HS GPA Score
MAT 141 Liberal Arts Mathematics	≥ 19	≥ 7	≥ 22	ALG ≥ 36	≥ 2.8
MAT 141 Liberal Arts Mathematics with MAT 141S Co-requisite Remediation	14 – 18		6 – 21	ALG 16 – 35 <b>OR</b> PALG ≥ 24	1.0 – 2.799
Skills U			0 – 5	PALG 0 – 23	< 1.0

➤ Technical Courses – AAS Degrees

Course	ACT Score	KMATH Score	COMPASS Score	HS GPA Score
MAT 105 Business Mathematics MAT 110 Applied Mathematics, MAT 116 Technical Mathematics	≥ 14	≥ 6	ALG 16 – 35 <b>OR</b> PALG ≥ 24	≥ 1.0
Skills U		0 – 5	PALG 0 – 23	< 1.0

### College Algebra Pathway – CIT, Diagnostic Medical Sonography, Engineering Technology, Radiography, etc.

Course	ACT Score	KALG Score	KMATH Score	COMPASS Score	HS GPA Score
MAT 150 College Algebra <b>OR</b> MAT 155 Trigonometry	≥ 22	≥ 14		ALG ≥ 50	≥ 3.0
MAT 150 College Algebra with MAT 100 College Algebra Workshop	19 – 21	7 – 13		ALG 36 – 49	2.8 – 2.9
MAT 61 Foundations of College Algebra	0 – 18		6 – 21	ALG 31 – 35 <b>OR</b> PALG ≥ 24	1.0 – 2.799
Skills U			0 – 5	PALG 0 – 23	< 1.0

### Calculus Pathway – Engineering, Computer Science, Physical Sciences, Pre-Med, etc.

➤ STEM Calculus – PREFERRED Pathway

Course	ACT Score	KALG Score	COMPASS Score
MAT 174 Calculus I	≥ 27		ALG ≥ 93
<sup>1</sup> MAT 171 Precalculus	23 – 26	≥ 15	ALG 55 – 92
<sup>2</sup> MAT 085 Intermediate Algebra	0 – 22	0 – 14	ALG 36 – 54

<sup>1</sup>Students may not receive credit for both MAT 171 and any other College Algebra, Trigonometry, or Precalculus course.

<sup>2</sup>Students with ACT less than 23 may consult the Math Department for case by case evaluation.

➤ STEM Calculus – Alternate Pathway (if students already took MAT 150 or have lower score)

Course	ACT Score	KALG Score	KMATH Score	COMPASS Score	HS GPA Score
MAT 174 Calculus I	≥ 27			ALG ≥ 93	
MAT 150 College Algebra <b>AND</b> MAT 154 or MAT 155 Trigonometry	≥ 22	≥ 14		ALG 50 – 92	≥ 3.0
MAT 150 College Algebra with MAT 100 College Algebra Workshop	19 – 21	7 – 13		ALG 36 – 49	2.8 – 2.9
MAT 61 Foundations of College Algebra	0 – 18		6 – 21	ALG 31 – 35 <b>OR</b> PALG ≥ 24	1.0 – 2.799
Skills U			0 – 5	PALG 0 – 23	< 1.0

➤ Business Calculus

Course	ACT Score	KALG Score	KMATH Score	COMPASS Score	HS GPA Score
MAT 170 Brief Calculus with Applications	≥ 27			ALG ≥ 93	
MAT 150 College Algebra	≥ 22	≥ 14		ALG 50 – 92	≥ 3.0
MAT 150 College Algebra with MAT 100 College Algebra Workshop	19 – 21	7 – 13		ALG 36 – 49	2.8 – 2.9
MAT 61 Foundations of College Algebra	0 – 18		6 – 21	ALG 31 – 35 <b>OR</b> PALG ≥ 24	1.0 – 2.799
Skills U			0 – 5	PALG 0 – 23	< 1.0

**Returning Students in a Quantitative Reasoning Sequence:**

Course Passed	Course Options depending on pathway
MAT 055	<ul style="list-style-type: none"> <li>• MAT 141 with MAT 141S (QR Liberal Arts Math pathway)</li> <li>• MAT 105 or MAT 116 (QR Technical pathway)</li> <li>• MAT 061 → MAT 150 with MAT 100 (College Algebra pathway)</li> <li>• MAT 061 → MAT 150 with MAT 100 and MAT 155 → MAT 174 (Calculus pathway)</li> </ul>
MAT 065	<ul style="list-style-type: none"> <li>• MAT 141 (QR Liberal Arts Math pathway)</li> <li>• MAT 105 or MAT 116 (QR Technical pathway)</li> <li>• MAT 150 with MAT 100 (College Algebra pathway)</li> <li>• MAT 085 → MAT 171 → MAT 174 (Calculus pathway)</li> </ul>
MAT 085	<ul style="list-style-type: none"> <li>• MAT 141 (QR Liberal Arts Math pathway)</li> <li>• MAT 105 or MAT 116 (QR Technical pathway)</li> <li>• MAT 150 (College Algebra pathway)</li> <li>• MAT 171 → MAT 174 (Calculus pathway)</li> </ul>

Course Failed	Course Options depending on pathway
MAT 055	<ul style="list-style-type: none"> <li>• Use placement scores for pathway course</li> </ul>
MAT 065	<ul style="list-style-type: none"> <li>• MAT 061 or Liberal Arts/Technical pathway course</li> </ul>
MAT 085	<ul style="list-style-type: none"> <li>• MAT 085 (Calculus pathway)</li> <li>• MAT 150 with MAT 100 (College Algebra pathway)</li> </ul>

- Students whose scores or progression indicate they need MAT 141S or MAT 100 as a corequisite to their math classes and who take online sections of MAT 141 and MAT 150 do not have a lab option. They should be enrolled in an online section without a lab.
- Students who complete MAT 141 or 146 cannot automatically be enrolled in MAT 150. Please use placement scores for enrollment. Most will likely need MAT 150 with MAT 100.
- Students who fail MAT 150 and pass MAT 100 must be reenrolled in MAT 100 along with MAT 150.