

# Majors and MATH Requirements

## ALEKS Math Assessment

October 2021

Purple text indicates if a math course is required for the first semester at JMU. Contact your advisor if you have math credit.

The chart below shows math requirements by major. Any of the courses listed in **bold font fulfill the Calculus or Statistics requirement** for the major. Math courses not in bold indicate a lower level preparatory course. Enrollment in your first math course is based on your ALEKS assessment score. The MyMadison system will not permit you to enroll in a course higher than the recommendation for your assessment score. In some cases, score parameters may overlap allowing students to enroll in either course. Additional courses may be required by the major.

| Major   | Calculus Course   | ALEKS Score                                    | Statistics Course                              | ALEKS Score   |
|---|---|--|--|---|
| Biology & Biotechnology<br><br><i>Math is required for the 1<sup>st</sup>-semester based on your assessment score.</i>                | <b>MATH 235</b><br><b>MATH 231</b><br><b>MATH 231 + 199</b><br>MATH 155 | ≥ 81<br>≥ 66<br>56 – 65<br>55 or below         | <b>MATH 229</b><br><b>MATH 220</b><br>MATH 105 | ≥61<br>≥46<br>45 or below   |
| Business BBA (excluding QFIN and ECON)<br><br><i>Math is required for the 1<sup>st</sup>-semester based on your assessment score.</i> | <b>MATH 235</b><br><b>MATH 205</b><br><b>MATH 205 + 199</b><br>MATH 155 | ≥ 81<br>≥ 66<br>56 – 65<br>55 or below         | COB 191  | ≥ 46<br>OR any credit for one of the following:<br>MATH 155, MATH 156, MATH 205, MATH 231, MATH 235 or ISAT 151 |
| Chemistry & Biophysical Chemistry<br><br><i>Math is required for the 1<sup>st</sup>-semester based on your assessment score.</i>      | <b>MATH 235</b><br><b>MATH 231</b><br><b>MATH 231 + 199</b><br>MATH 155 | ≥ 81<br><b>66-80</b><br>56 - 65<br>55 or below |  |   |
| Communication Science and Disorders   |   |  | <b>MATH 220</b><br>MATH 105                    | ≥ 46<br>45 or below   |
| Communication Studies – BS  |   |  | <b>MATH 220</b><br>MATH 105                    | ≥ 46<br>45 or below   |
| Computer Science<br><br><i>If you placed into MATH 155, it is required the 1<sup>st</sup> semester</i>                                | <b>MATH 235</b><br><b>MATH 231</b><br><b>MATH 231 + 199</b><br>MATH 155 | ≥ 81<br>≥ 66<br>56 - 65<br>55 or below         | <b>MATH 220</b><br>MATH 105                    | ≥ 46<br>45 or below   |
| Dietetics<br><br><i>If you placed into MATH 105, it is required the 1<sup>st</sup> semester</i>                                       |   |  | <b>MATH 220</b><br>MATH 105                    | ≥ 46<br>45 or below   |
| Earth Science<br><br><i>Math is required for the 1<sup>st</sup>-semester based on your assessment score.</i>                          | <b>MATH 235</b><br><b>MATH 231</b><br><b>MATH 231 + 199</b><br>MATH 155 | ≥ 81<br>≥ 66<br>56 - 65<br>55 or below         |  |   |
| Economics – BA or BS<br><br><i>Math is required for the 1<sup>st</sup>-semester based</i>   | <b>MATH 235</b><br><b>MATH 231</b>                                      | ≥ 81<br>≥ 66                                   |  |   |

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| on your assessment score.  | <b>MATH 231 + 199</b><br><b>MATH 205</b><br><b>MATH 205 + 199</b><br>MATH 155                      | <b>56-65</b><br><b>≥ 66</b><br><b>56 – 65</b><br>55 or below       |  |   |
| Education Majors:  |  |  |  |   |
| Elementary Ed  | <b>MATH 110 - All scores – Recommended by the end of the first year</b>                            |  |  |   |
| Inclusive Early Childhood Ed   | <b>Any Cluster Three Math</b> – See score information in the <i>All Other Majors</i> section below |  |  |   |
| Special Education  | <b>Any Cluster Three Math</b> – See score information in the <i>All Other Majors</i> section below |  |  |   |
| Teaching English to Speakers of Other Languages (TESOL)  | <b>Any Cluster Three Math</b> – See score information in the <i>All Other Majors</i> section below |  |  |   |
| MIED English   | <b>MATH 110 Recommended by end of first year</b>   |  |  |   |
| MIED Mathematics   | <b>MATH 110 - All scores – Required first semester</b>   |  |  |   |
| MIED Science   | <b>MATH 110 Recommended by end of first year</b>   |  |  |   |
| MIED Social Studies  | <b>MATH 110 Recommended by end of first year</b>   |  |  |   |
| SEED – Biology/Chemistry/Earth Science/Mathematics/Physics<br><br>See the math requirement for the specific major for 1 <sup>st</sup> semester math requirements | <b>MATH 235</b><br><b>MATH 231</b><br><b>MATH 231 + 199</b><br>MATH 155                            | <b>≥ 81</b><br><b>≥ 66</b><br><b>56 – 65</b><br><b>55 or below</b> | <b>MATH 229</b><br><b>MATH 220</b><br>MATH 105 | <b>≥ 61</b><br><b>≥ 46</b><br>45 or below |
| SEED – English/History   | <b>Any Cluster Three Math</b> – See score information in the <i>All Other Majors</i> section below |  |  |   |
| Engineering<br><br>Math is required for the 1 <sup>st</sup> -semester based on your assessment score.  | <b>MATH 235</b><br><b>MATH 231</b><br><b>MATH 231 + 199</b><br>MATH 155                            | <b>≥ 81</b><br><b>66 - 80</b><br><b>56 - 65</b><br>55 or below     |  |   |
| Geology<br><br>Math is required for the 1 <sup>st</sup> -semester based on your assessment score.  | <b>MATH 235</b><br><b>MATH 231</b><br><b>MATH 231 + 199</b><br>MATH 155                            | <b>≥ 81</b><br><b>≥ 66</b><br><b>56 - 65</b><br>55 or below        | <b>MATH 220</b><br>MATH 105                    | <b>≥ 46</b><br>45 or below                |
| Health Sciences<br><br>If you placed into MATH 105, it is required the 1 <sup>st</sup> semester  |  |  | <b>MATH 220</b><br>MATH 105                    | <b>≥ 46</b><br>45 or below                |
| Information Technology<br><br>If you placed into MATH 155, it is required the 1 <sup>st</sup> semester   | <b>MATH 235</b><br><b>MATH 231</b><br><b>MATH 231 + 199</b><br>MATH 155                            | <b>≥ 81</b><br><b>≥ 66</b><br><b>56 - 65</b><br>55 or below        | <b>MATH 220</b><br>MATH 105                    | <b>≥ 46</b><br>45 or below                |
| IdLS<br><br>MATH 107 is required the 1 <sup>st</sup> semester  | <b>MATH 107 – All scores</b>   |  |  |   |
| ISAT<br><br>MATH 155 or ISAT 151 is required the 1 <sup>st</sup> semester  | <b>ISAT 151</b><br><b>ISAT 151 &amp; ISAT 150</b><br>MATH 155                                      | <b>≥ 81</b><br><b>56 - 66</b><br>55 or below                       |  |   |

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| International Affairs<br><br>If you placed into MATH 105, it is required the 1 <sup>st</sup> semester  |  |   | <b>MATH 220</b><br>MATH 105                           | ≥ 46<br>45 or below                               |
| Justice Studies  |  |   | <b>MATH 220</b><br>MATH 105                           | ≥ 46<br>45 or below                               |
| Kinesiology<br><br>If you placed into MATH 155 or MATH 105, it is required the 1 <sup>st</sup> semester. One math course is recommended for the 1 <sup>st</sup> semester | <b>MATH 205</b><br><b>MATH 205 + 199</b><br>MATH 155   | ≥ 66<br><b>56 – 65</b><br>55 or below                                   | <b>MATH 220</b><br>MATH 105                           | ≥ 46<br>45 or below                               |
| Mathematics<br><br>Math is required your 1 <sup>st</sup> semester  | <b>MATH 235</b><br><b>MATH 231</b><br><b>MATH 231 + 199</b><br>MATH 155  | ≥ 81<br>≥ 66<br><b>56 - 65</b><br>55 or below                           |   |   |
| Nursing  |  |   | <b>MATH 220</b><br>MATH 105                           | ≥ 46<br>45 or below                               |
| Physics<br><br>Math is required your 1 <sup>st</sup> semester  | <b>MATH 235</b><br><b>MATH 231</b><br><b>MATH 231 + 199</b><br>MATH 155  | ≥ 81<br>≥ 66<br><b>56 - 65</b><br>55 or below                           |   |   |
| Political Science<br><br>If you placed into MATH 105, it is required the 1 <sup>st</sup> semester  |  |   | <b>MATH 220</b><br>MATH 105                           | ≥ 46<br>45 or below                               |
| Psychology<br><br>Math is required your 1 <sup>st</sup> semester. MATH 220 is recommended.   | <b>MATH 235</b><br><b>MATH 231</b><br><b>MATH 231 + 199</b><br><b>MATH 205</b><br><b>MATH 205 + MATH 199</b><br>MATH 155               | ≥ 81<br>≥ 66<br><b>56 - 65</b><br>≥ 66<br><b>56 - 65</b><br>55 or below | <b>MATH 220</b><br>MATH 105                           | ≥ 46<br>45 or below                               |
| Public Administration<br><br>If you placed into MATH 105, it is required the 1 <sup>st</sup> semester  |  |   | <b>MATH 220</b><br>MATH 105                           | ≥ 46<br>45 or below                               |
| Quantitative Finance<br><br>Math is required your 1 <sup>st</sup> semester   | <b>MATH 235</b><br><b>MATH 231</b><br><b>MATH 231 + 199</b><br>MATH 155  | ≥ 81<br>≥ 66<br><b>56 - 65</b><br>55 or below                           |   |   |
| Social Work  |  |   | <b>MATH 220</b><br>MATH 105                           | ≥ 46<br>45 or below                               |
| Statistics<br><br>Math is required your 1 <sup>st</sup> semester   | <b>MATH 235</b><br><b>MATH 231</b><br><b>MATH 231 + 199</b><br>MATH 155  | ≥ 81<br>≥ 66<br><b>56 - 65</b><br>55 or below                           | <b>MATH 229</b>                                       | ≥61   |
| Undeclared   | Most majors have a required math subject. Consult with your advisor about majors you are considering before enrolling in a math class. |   |   |   |
| <b>All other majors</b> – classes in bold fulfill General Education Cluster 3 Quantitative Reasoning requirement   | <b>MATH 235</b><br><b>MATH 231</b><br><b>MATH 231 + 199</b><br><b>MATH 205</b><br><b>MATH 205 + MATH 199</b><br>MATH 155               | ≥ 81<br>≥ 66<br><b>56 - 65</b><br>≥ 66<br><b>56 - 65</b><br>55 or below | <b>MATH 220</b><br><b>MATH 105</b><br><b>MATH 103</b> | ≥ 46<br>45 or below<br>No specific score required |