## Majors and MATH Requirements ALEKS Math Assessment

**SPRING 2025** 

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

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on your assessment score.	MATH 231 + 199 MATH 205 MATH 205 + 199 MATH 155	<b>56-65</b> ≥ <b>66 56 – 65</b> 55 or below			
Education Majors: Elementary Ed	MATH 110 - All scores	- Pecammended b	w the end of the f	irst voor	
Elementary Eu	MATH 110 - All scores – Recommended by the end of the first year				
Inclusive Early Childhood Ed	Any Cluster Three Math – See score information in the All Other Majors section below				
Special Education	Any Cluster Three Math – See score information in the All Other Majors section below				
Teaching English to Speakers of Other Languages (TESOL)	Any Cluster Three Math – See score information in the All Other Majors section below				
MIED English	MATH 110 Recommend		-		
MIED Mathematics	MATH 110 - All scores -	- Required first se	mester		
MIED Science	MATH 110 Recommend	led by end of first	year		
MIED Social Studies	MATH 110 Recommended by end of first year				
SEED – Biology/Chemistry/Earth	MATH 235	≥ 81	MATH 229	≥ 61	
Science/Mathematics/Physics	MATH 231	≥ 66	MATH 220	≥ 46	
See the math requirement for the specific major for 1st semester math requirements	MATH 231 + 199 MATH 155	56 – 65 55 or below	MATH 105	45 or below	
SEED – English/History	Any Cluster Three Math	See score inforu	mation in the <i>All O</i>	ther Majors section below	
Engineering	MATH 235	≥ 81		,	
Math is required for the 1 <sup>st</sup> -semester based on your assessment score.	MATH 231 MATH 231 + 199 MATH 155	66 - 80 56 - 65 55 or below			
Geology	MATH 235	≥ 81	MATH 220	≥ 46	
Math is required for the 1 <sup>st</sup> -semester based on your assessment score.	MATH 231 MATH 231 + 199 MATH 155	≥ 66 56 - 65 55 or below	MATH 105	45 or below	
Health Sciences			MATH 220	≥ <b>46</b> 45 or below	
If you placed into MATH 105, it is required the 1st semester			MATH 105	43 Of Below	
			1	1	
	MATH 235	≥ 81	MATH 220	≥ 46	
nformation Technology f you placed into MATH 155, it is required	MATH 235 MATH 231 MATH 231 + 199 MATH 155	≥ 81 ≥ 66 56 - 65 55 or below	MATH 220 MATH 105	≥ <b>46</b> 45 or below	
Information Technology  If you placed into MATH 155, it is required the 1st semester	MATH 231 MATH 231 + 199	≥ 66 56 - 65	_	-	
Information Technology  If you placed into MATH 155, it is required the 1st semester  IdLS  MATH 107 is required the 1st semester	MATH 231 MATH 231 + 199 MATH 155	≥ 66 56 - 65	_	-	
Information Technology  If you placed into MATH 155, it is required the 1st semester  IdLS  MATH 107 is required the 1st semester	MATH 231 MATH 231 + 199 MATH 155	≥ 66 56 - 65	_	-	
Information Technology  If you placed into MATH 155, it is required the 1st semester  IdLS	MATH 231 MATH 231 + 199 MATH 155 MATH 107 – All scores	≥ 66 56 - 65 55 or below	_	-	

International Affairs			MATH 220	≥ 46
international Arians			MATH 105	45 or below
If you placed into MATH 105, it is			IVIATH 103	1.5 5. 55.6 11
required the 1st semester				
Lucking Churding			NAATU 220	≥ 46
Justice Studies			MATH 220	45 or below
			MATH 105	13 61 561611
Kinesiology	MATH 205	≥ 66	MATH 220	≥ 46
	MATH 205 + 199	56 – 65	MATH 105	45 or below
	MATH 155	55 or below		
If you placed into MATH 155 or MATH 105, it is required the 1 <sup>st</sup> semester. One math	i			
course is recommended for the 1 <sup>st</sup> semester.				
Mathematics	MATH 235	≥ 81		I
Wathematics	MATH 231	≥ 66		
Math is required your 1st semester	MATH 231 + 199	56 - 65		
	MATH 155	55 or below		
Nursing	WATTI 155	33 01 5010	MATH 220	≥ 46
Nursing			MATH 105	45 or below
			WATTIOS	
Physics	MATH 235	≥ 81		
rilysics	MATH 231	≥ 66		
Math is required your 1st semester	MATH 231 MATH 231 + 199	56 - 65		
		55 or below		
Delitical Colores	MATH 155	33 of below	NAATU 220	≥ 46
Political Science			MATH 220	45 or below
If you placed into MATH 105, it is			MATH 105	45 of below
required the 1 <sup>st</sup> semester				
Psychology	MATH 235	≥ 81	MATH 220	≥ 46
- /	MATH 231	≥ 66	MATH 105	45 or below
Math is required your 1 <sup>st</sup> semester. MATH	MATH 231 + 199	56 - 65		
220 is recommended.	MATH 205	≥ 66		
	MATH 205 + MATH 199	56 - 65		
	MATH 155	55 or below		
D. H. A.L		33 01 501011	244711222	≥ 46
Public Administration			MATH 220	≥ <b>40</b> 45 or below
If you placed into MATH 105, it is			MATH 105	45 of below
required the 1 <sup>st</sup> semester				
•	144711207	> 04		
Quantitative Finance	MATH 235	≥ 81		
Math is required your 1 <sup>st</sup> semester	MATH 231	≥ 66		
	MATH 231 + 199	56 - 65		
C:-1.WII	MATH 155	55 or below	DAAT!! 335	≥ 46
Social Work			MATH 220	45 or below
			MATH 105	45 OF DEIOW
Statistics	MATH 235	≥ 81	MATH 229	≥61
	MATH 231	≥ 66		
Math is required your 1st semester	MATH 231 + 199	56 - 65		
	MATH 155	55 or below		
Undeclared			. Consult with you	r advisor about majors you are
	considering before enrolling	-	•	The state of the s
All other majors – classes in bold	MATH 235	≥ 81	MATH 220	≥ 46
fulfill General Education Cluster 3	MATH 231	≥ 66	MATH 105	45 or below
Quantitative Reasoning	MATH 231 + 199	56 - 65	MATH 103	No specific score required
requirement	MATH 205	≥ 66	WATER 103	,
. equilities	MATH 205 MATH 205 + MATH 199	56 - 65		
	MATH 155	55 or below		
	INIVILL TOO	JJ OI DEIOW		