

Math Placement Guidelines for Incoming Students



Placement Criteria

Math placement is an integral part of student success. At MSOE, the placement criterion incorporates aspects of your academic background. These include college credit earned prior to MSOE, math courses taken in high school, ACT/SAT math scores, and/or the ALEKS PPL Math Assessment. To understand what your math placement will be, let's begin with any incoming credit you will bring as you start at MSOE. This includes Advanced Placement (AP), International Baccalaureate (IB), and CLEP credit, as well as any credit earned through work done at higher education institutions that you intend to transfer to your MSOE record.

If you do not have any incoming credit, please continue to the Math Placement Guidelines section on the reverse side.

Advanced Placement, International Baccalaureate and CLEP Credit

Exam	Score	Credit
AP Calculus AB	4-5	MTH 1110 – Calculus I
AP Calculus AB Subscore	4-5	MTH 1110 – Calculus I
AP Calculus BC	4-5	MTH 1110 – Calculus I and MTH 1120 – Calculus II
IB Mathematics: Analysis and Approaches HL	5-7	MTH 1110 – Calculus I
CLEP Calculus	60+	MTH 1110 – Calculus I

*AP Precalculus (score of 3-5) and AP Calculus AB (score of 3) are not awarded credit but are considered for placement.

Placement for Students with Prior Credit*

Program(s)	Students with Credit for MTH 1110	Students with Credit for MTH 1110 and MTH 1120
Construction Management (CM) Health Innovation (HI) Nursing (NU) User Experience (UX)	No first-year math course. See your academic plan for future math courses.	
Accounting (ACCT) Finance (FIN) Management (MGMT) Marketing (MRKT) Operations and Systems Management (OPSYS) Technical and Business Management (TBM)	No first-year math course. See your academic plan for future math courses.	
Cybersecurity Systems (CYB)	MTH 2480 – Probability and Statistics	
Actuarial Science (AS)	MTH 1120 – Calculus II	MTH 2610 – Probability for Actuarial Science I
Architectural Engineering (AE) Civil Engineering (CVE) Computing Explorer Pathway (CEXP) Engineering Explorer Pathway (EEXP) Mechanical Engineering (ME)	MTH 1120 – Calculus II	MTH 2130 – Calculus III or MTH 2140 – Differential Equations
Biomedical Engineering (BE) Chemical and Biomolecular Engineering (CBE) Computer Engineering (CE) Electrical Engineering (EE)	MTH 1120 – Calculus II	MTH 2140 – Differential Equations
Computer Science (CS) Industrial Engineering (IE) Software Engineering (SE)	MTH 1120 – Calculus II	MTH 2130 – Calculus III

Math Placement Guidelines for Incoming Students

All students who have not taken Calculus in high school are required to take the ALEKS Math Assessment.

Students are exempt from the ALEKS if they:

- Took Calculus in high school and scored at least 28 on Math ACT or 660 on Math SAT
- Took Calculus in high school and received at least a 4 on AP Precalculus Exam

Student with Calculus in high school:

ALEKS Score	Math ACT (<28)* SAT (<660)*	AP Calculus AB (3) AP Calculus BC Subscore (3)
Greater than 75	MTH 1110 – Calculus I	MTH 1110 – Calculus I
61-74	MTH 1080 – Precalculus	MTH 1110 – Calculus I
60 or less	MTH 1080 – Precalculus	MTH 1080 – Precalculus

*Or no ACT/SAT submitted

Students without Calculus in high school

ALEKS Score	Math ACT (28+) Math SAT (660+)	Math ACT (24-27) Math SAT (570-650)	AP Precalculus (3-5)	Math ACT (<24)* Math SAT (<570)*
Greater than 75	MTH 1110 – Calculus I	MTH 1110 – Calculus I	MTH 1110 – Calculus I	MTH 1110 – Calculus I
61-75	MTH 1110 – Calculus I	MTH 1080 – Precalculus	MTH 1080 – Precalculus	MTH 1080 – Precalculus
35-60	MTH 1080 – Precalculus	MTH 1080 – Precalculus	MTH 1080 – Precalculus	MTH 1080 – Precalculus
Less than 35	MTH 1080 – Precalculus	MTH 1080 – Precalculus	MTH 1080 – Precalculus	RSC 1070 – Math Pathways

*Or no ACT/SAT submitted

Students who match more than one placement category will be placed in the most advanced course for which they qualify. Students who wish to begin in an earlier course should contact their academic program advisor or email mathplacement@msoe.edu for guidance.

ALEKS - Key Dates

- Opens – March 30, 2026
- Priority Deadline – June 1, 2026
Priority deadline will ensure accurate math placement on the ROAR Day Course Worksheet
- Final Deadline – July 6, 2026
- Jumpstart Program Participants – Math placement will be reassessed when course is completed.



QUESTIONS?

Scan the QR code or email us at mathplacement@msoe.edu.