

Concentration in Mathematics requirement checklist

For students who entered Columbia in or before the 2023-24 academic year

This form is for your convenience and does not replace the [bulletin](#).

Please complete this form for approval by a department adviser early in the semester of the expected graduation date; attach copies of emails approving transfers/substitutions/electives.

Personal information

Last Name Given name

Preferred name UNI

Columbia College

School of General Studies

Dual degree program:

AP Credits

0 Credits

3 Credits: a score of 4 or 5 on the AP Calculus AB exam, a 4 on the AP Calculus BC exam, or a 6 on the IB Mathematics: analysis and approaches HL exam, upon completion of either Calculus 2 or Calculus 3 with a grade of C or higher.

6 Credits: a score of 5 on the AP Calculus BC exam or 7 on the IB Mathematics: analysis and approaches HL exam, upon completion of Calculus 3 or Accelerated Multivariable Calculus with a grade of C or higher.

Other, explain:

Please verify AP credits are correctly registered in SSOL; otherwise consult with your CC/GS advisor. See [Credit for Previous College-level work](#).

Placement

In some situations (see [Placement](#)) students may be allowed to place out of Calculus 1 and/or 2 without receiving matching AP or transfer credits. In this case the missing credits have to be replaced by an additional approved course(s) (e.g. Math UN2000). If applicable, explain:

For questions on AP, transfer and placement for Calculus and Linear Algebra courses, please consult the Calculus Director.

Multivariable Calculus and Linear algebra sequence

1201 Calculus III + 1202 Calculus IV+ 2010 Linear Algebra
 or 1205 Accelerated Multivariable Calc + 2010 Linear Algebra
 or 1207 Honors Math A + 1208 Honors Math B

Code	Course name	Term	Grade

Electives

Code	Course name	Term	Grade

4 courses (at least 12 points) selected from: Courses offered by the Math department numbered 2000 or higher¹, and [approved cognate courses for the Math major](#) (maximum of one cognate course).

Transfer

If applicable, please enter here courses taken at another institution used to fulfill a minor requirement. All transfers have to be approved by departmental advisor(s) (Calculus director for Calc/Linear algebra/ODEs). For study abroad, consult your departmental advisor in advance of registration. Please verify that transfer credits are correctly entered in SSOL, and check with you CC/GS advisor regarding transfer credit limits.

Code	Course name	Institution	Term	Grade

Grading

No course with a grade of D or lower can count toward the concentration, with the exception of: any sporadic exception allowed by the COI (P in any class in SP20; one P in F20, SP21, F21; two Ps in SP24).

¹ Only one Undergraduate Seminar in Mathematics (MATH UN3951 UNDERGRADUATE SEMINARS I or MATH UN3952 UNDERGRADUATE SEMINARS II) may count towards the concentration requirements.

Double-Counting

See [Departmental Major/double-counting](#). Calculus I to IV/Accelerated Multivariable Calc/Honors Math A-B/Stat 1201/COMS 1004 ('introductory courses') may be freely double-counted with another program (second major, or concentration/minor). In addition to these, a maximum of two courses may be double-counted for the Math concentration, subject to approval of all concerned departmental advisors (Math+department(s) offering the second program).

If applicable, record here non-introductory courses claimed for double-counting.

Code	Course name	Second program	Term	Grade

Additional comments and information (if needed)

Last revised: December 2024