

Computer Science-Math major requirement checklist

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

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

Personal information

Last Name	<input type="text"/>	Given name	<input type="text"/>
Preferred name	<input type="text"/>	UNI	<input type="text"/>
<input type="checkbox"/> Columbia College		<input type="checkbox"/> School of General Studies	
<input type="checkbox"/> Dual degree program:	<input type="text"/>		

Calculus 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](#).

Calculus 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.

Calculus and Linear algebra sequence¹

Calculus I + Calculus II + Calculus III + Calculus IV+ Linear Algebra
 or Calculus I + Calculus II + Accelerated Multivariable Calc + Linear Algebra
 or Calculus I + Calculus II + Honors Math A + Honors Math B

Code	Course name	Term	Grade
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Undergraduate seminar

MATH UN3951 *or* MATH UN3952 Undergraduate seminar

Code	Course name	Term	Grade
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Algebra requirement

MATH GU4041 Modern Algebra I

Code	Course name	Term	Grade
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Computer science

(i) COMS W1004 *or* COMS W1007; (ii) COMS W3134 *or* 3137; (iii)-(vi) COMS W3157 *and* COMS W3203 *and* COMS W3261 *and* CSEE W3827

Code	Course name	Term	Grade
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¹ 13-15 credits including AP credits

Electives

Two courses selected from:

COMS W4111, 4113, 4115, 4118, 4119, 4152, 4156, 4160, 4167, 4170, 4181, 4236, 4701, 4705, 4731, 4733, 4771; CSOR E4231, CBMF W4761, CSEE W4824, 4868; MATH BC2006, MATH UN2030, 2500, 3007, 3020, 3025, 3028, 3386, MATH GU4032, 4042, 4051, 4053, 4061, 4062.

Code	Course name	Term	Grade
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Transfer

If applicable, please enter here courses taken at another institution used to fulfill a major 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
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Grading

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

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, subject to approval of all concerned departmental advisors (Math+COMS+department(s) offering the second program).

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

Code	Course name	Second program	Term	Grade
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Additional comments and information (if needed)

Last revised: December 2024