

# Math AST Coursework Roadmap-Two Year

## Year 1

### Instructions:

Be sure to work with a counselor to make sure that your choices work for all of your intended transfer institutions.

1. COLSK 100 & GUIDE 111 or GUIDE 120
2. Take MATH 171 (& MATH 181<sup>1</sup>).
3. Take ENGL 100 or 101.
4. Pick one course from the list of General Education Options –CSU GE: Area C1/ IGETC Area 3A table
5. Take MATH 172 (& MATH 182<sup>1</sup>).
6. Take PHYS 101 (& PHYS 121<sup>1</sup>) or List B selection.<sup>2</sup>
7. Pick one course from the list of General Education Options –CSU GE: Area A3/ IGETC Area 1B table.
8. Pick one course from the list of General Education Options –CSU GE: Area D/ IGETC Area 4 table in Group a.

<sup>1</sup> Highly recommended for success by area faculty.

<sup>2</sup> PHYS 101 has a prerequisite of PHYS 165. Students who passed Physics in high school can petition to enter PHYS 101 directly. PHYS 101 also fulfills a MATH AST LIST B and a CSU GE: Area B1/IGETC 5A requirement with laboratory. If you are selecting a different List B course see a counselor to select a new physical science course.

### Course Selections:

Course Selections:	Units	Term
1. COLSK 100 & GUIDE 111 or GUIDE 120	<u>3</u>	_____
2. MATH 171 (& MATH 181)	<u>4-5</u>	_____
3. ENGL 100 or 101	<u>3 or 5</u>	_____
4. _____ <small>general education selection</small>	<u>3</u>	_____
5. MATH 172 (& MATH 182)	<u>4-5</u>	_____
6. PHYS 101 (&121) or _____ <small>AST List B selection</small>	<u>3-5</u>	_____
7. _____ <small>general education selection</small>	<u>3</u>	_____
8. _____ <small>US constitution selection</small>	<u>3</u>	_____

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## General Education Options – CSU GE Area C / IGETC Area 3

Course #	Course Title	GE Area(s)
<b>CSU GE Area C1 / IGETC Area 3A</b>		
ART 102/ CMPGR 202	Introduction to Computer Graphics <sup>1</sup>	CSU GE: C1 / *
ART 151 <sup>1</sup>	Survey of Islamic Art	CSU GE: C1 / IGETC: 3A
ART 160 <sup>2</sup>	Appreciation of Art	CSU GE: C1 / IGETC: 3A
MUSG 101 <sup>2</sup>	Music Appreciation	CSU GE: C1 / IGETC: 3A

## CSU GE Area C2 / IGETC Area 3B

ENGL 102	Advanced Composition & Intro to Lit	CSU GE: C2 / IGETC: 3B
HUMAN 101 <sup>2</sup>	Introduction to the Humanities	CSU GE: C2 / IGETC: 3B
PHILO 101 <sup>2</sup>	Philosophy	CSU GE: C2 / IGETC: 3B

\* ART 102/CMPGR 202 meet the CSU C1 requirement, but should not be chosen if one of your transfer destinations is a UC.

<sup>1</sup> Art 151 is only offered in Spring semesters.

<sup>2</sup> Online offerings available.

These are recommendations from area faculty. Alternative selections can be made using MJC's general education lists in the catalog. Please see your counselor for assistance in choosing alternate courses.

## General Education Options – CSU GE: A3/IGETC: 1B

Course #	Course Title	GE Area(s)
CSCI 203/ PHILO 103	Symbolic Logic	CSU GE: A3/* CSU GE: A3/*
ENGL 103	Advanced Composition & Critical Thinking	CSU GE: A3/ IGETC: 1B
PHILO 105	Critical Reasoning & Analytic Writing	CSU GE: A3/ IGETC: 1B
PHILO 107	Philosophy of Science	CSU GE: A3/ IGETC: 1B

\* CSCI 203 and PHILO 103 meet the CSU A3 requirement, but should not be chosen if one of your transfer destinations is a UC.

These are recommendations from area faculty. Alternative selections can be made using MJC's general education lists in the catalog. Please see your counselor for assistance in choosing alternate courses.

## Math AST Major Options

Select 6 units minimum from the lists below with at least 3 units from List A:

Course #	Course Title
<b>List A</b>	
MATH 191	Linear Algebra
MATH 193	Ordinary Differential Equations
<b>List B</b>	
CSCI 271	Problem Solving and Programming 1
MATH 134	Elementary Statistics
PHYS 101	General Physics: Mechanics

## General Education Options – CSU GE: D / IGETC: 4 Table 2

To fulfil the "US History, Constitution, and American Ideals" requirement you must take a combination of two classes. You can take HIST 101 and HIST 102 or take either HIST 101 or HIST 102 and POLSCI 101 .

Course #	Course Title	GE Area(s)
ECON 101	Principles of Macroeconomics	CSU GE: D/ IGETC: 4
ECON 102	Principles of Microeconomics	CSU GE: D/ IGETC: 4
HIST 101 <sup>1</sup>	History of the US until 1877	CSU GE: D/ IGETC: 4
HIST 102 <sup>1</sup>	History of the US since 1865	CSU GE: D/ IGETC: 4
POLSCI 101 <sup>2</sup>	American Politics	CSU GE: D/ IGETC: 4

<sup>1</sup> HIST 101 and HIST 102 will satisfy the Group a requirement.

<sup>2</sup> POLSC 101 will satisfy the Group b requirement

Completing both HIST 101 and 102 will also fulfill the US History, Constitution, and American Ideals requirement.

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# Math AST Coursework Roadmap-Two Year

## Year 2

### Instructions:

Continue to work with a counselor to make sure that your choices work for all of your intended transfer institutions.

9. Take MATH 173 (& MATH 183<sup>1</sup>).
10. Pick one course from the list of General Education Options – CSU GE: Area C2/ 3B table.
11. Take COMM 100.<sup>2</sup>
12. Pick one course from the list of General Education Options – CSU GE: Area D/ IGETC Area 4 table.
13. Pick one course from the list of General Education Options – CSU GE: Area B2/ IGETC Area 5B table.
14. Take MATH 191.
15. Take MATH 193 or List B selection.
16. Pick one course from the list of General Education Options – CSU GE: Area D/ IGETC Area 4 table in Group b.
17. Pick one course from the list of General Education Options – CSU GE: Area C1 or C2/ IGETC Area 3A or 3B table.
18. Pick Spanish as an IGETC 6A language course if you plan to transfer to a UC and have not taken at least two years of foreign language in high school.

<sup>1</sup> Highly recommended for success by area faculty.

<sup>2</sup> Students transferring to a CSU should consider taking COMM 100 in the summer before the 3rd Fifteen Units.

### Course Selections:

Course Selections:	Units	Term
9. MATH 173 (& MATH 183)	<u>4-5</u>	_____
10. _____ <small>general education selection</small>	<u>3</u>	_____
11. COMM 100	<u>3</u>	_____
12. _____ <small>general education selection</small>	<u>3</u>	_____
13. _____ <small>general education selection</small>	<u>3-4</u>	_____
14. MATH 191	<u>3</u>	_____
15. MATH 193 or _____ <small>AST List B selection</small>	<u>3-5</u>	_____
16. _____ <small>US constitution selection</small>	<u>3</u>	_____
17. _____ <small>general education selection</small>	<u>3</u>	_____
18. _____ <small>general education selection</small>	<u>3-5</u>	_____
<b>Expected Term of Graduation</b>	_____	_____

# Math AST Coursework Roadmap-Two Year

## General Education Options – CSU GE Area B2 / IGETC Area 5B

<b>Course #</b>	<b>Course Title</b>	<b>GE Area(s)</b>
<b>ANTHR 101</b>	Biological Anthropology	CSU GE: B2 / IGETC: 5B
<b>BIO 115</b>	Genetics, Evolution & Society	CSU GE: B2 / IGETC: 5B
<b>ENSCI 108</b>	Environmental Conservation	CSU GE: B2 / IGETC: 5B

These are recommendations from area faculty. Alternative selections can be made using MJC's general education lists in the catalog. Please see your counselor for assistance in choosing alternate courses.