

# Chemistry AST Coursework Roadmap-Three 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. Take MATH 161.
2. Take CHEM 101.
3. Take ENGL 100 or 101.
4. Take MATH 162.
5. Take CHEM 102.
6. Take ENGL 103.
7. Pick one course from the list of General Education Options – IGETC 3.<sup>1</sup>
8. Take COMM 100.<sup>1</sup>

<sup>1</sup> For students who did not complete high school chemistry with a grade of C or higher taking CHEM 142 first is recommended for success.

<sup>2</sup> Recommended for the summer semester.

### Course Selections:

Units

Term

1. MATH 161	<u>4</u>	_____
2. CHEM 101	<u>5</u>	_____
3. ENGL 100 or 101	<u>3 or 5</u>	_____
4. MATH 172	<u>4</u>	_____
5. CHEM 102	<u>5</u>	_____
6. ENGL 103	<u>3</u>	_____
7. _____ <small>general education selection</small>	<u>3</u>	_____
8. COMM 100	<u>3</u>	_____

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## Year 2

9. Take CHEM 112 or CHEM 122<sup>1</sup>.
10. Take MATH 171/181.
11. Take PHYS 165<sup>2</sup> (with PHYS 166<sup>3</sup>)
12. Take CHEM 113 or CHEM 123<sup>1</sup>.
13. Take MATH 172/182.
14. Take PHYS 101 (with PHYS 121<sup>3</sup>)
15. Pick one course from the list of General Education Options – IGETC 4.<sup>4</sup>

<sup>1</sup> Though the catalog only list CHEM 122 and 123 for the degree the evaluations office allows CHEM 112 and 113 for this AST.

<sup>2</sup> PHYS 165 is a prerequisite for PHYS 101 as should be taken at this point if this requirement was not satisfied in high school. Please see your counselor.

<sup>3</sup> Recommended for success by area faculty.

<sup>4</sup> Recommended for the summer semester.

## Course Selections:

Course Selections:	Units	Term
9. CHEM 112 or 122	<u>4</u>	_____
10. MATH 171/181	<u>5</u>	_____
11. PHYS 165 (with PHYS 166)	<u>4 or 5</u>	_____
12. CHEM 113 or 123	<u>4</u>	_____
13. PHYS MATH 172/182	<u>5</u>	_____
14. PHYS 101 (with PHYS 121)	<u>4 or 5</u>	_____
15. _____ general education selection	<u>3</u>	_____

# Chemistry AST Coursework Roadmap-Three Year

## Year 3

### Instructions:

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

16. Take PHYS 102<sup>1</sup> (with PHYS 112<sup>2</sup>)
17. Take MATH 173<sup>2</sup> (with MATH 183<sup>2</sup>).
18. Take BIO 101 or BIO 111.
19. Pick one course from the list of General Education Options – IGETC 4.
20. Take PHYS 103 (with PHYS 113<sup>1</sup>)
21. Pick one course from the list of General Education Options – IGETC 3.
22. Take one course that from General Education – IGETC 6A (FREN 101, GERM 101, ITAL 101, SIGN 125 or SPAN 101).

<sup>1</sup> PHYS 102 is recommended because it is required by UC Davis, UC Merced, and CSU Sacramento. Please consult with your counselor.

<sup>2</sup> Recommended for success by area faculty.

### Course Selections:

Course Selections:	Units	Term
16. PHYS 102 (with PHYS 112)	<u>4 or 5</u> _____	_____
17. MATH 173 (with MATH 183)	<u>4 or 5</u> _____	_____
18. BIO 101 or BIO 111	<u>4</u> _____	_____
19. _____ general education selection	<u>3</u> _____	_____
20. PHYS 103 (with PHYS 113)	<u>4 or 5</u> _____	_____
21. _____ general education selection	<u>3</u> _____	_____
22. _____ general education selection	<u>3-5</u> _____	_____

### Expected Term of Graduation

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## General Education Options –IGETC: 3

One of your IGETC 3 course selections should satisfy the 3A requirement and the other should satisfy the 3B requirement.

Course #	Course Title	GE Area(s)
ART 160	Appreciation of Art	IGETC: 3A*
MUSG 101	Music Appreciation	IGETC: 3A*
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HUMAN 101	Introduction to the Humanities	IGETC: 3B*
PHILO 101	Philosophy Application -or-	IGETC: 3B*
PHILO 111	Ethics: Theory & Application	IGETC: 3B

\* 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 – IGETC Area 4

### Course # Course Title GE Area(s)

The two classes you choose from this table must be from different disciplines.

To meet the US History, Constitution, and American Ideals requirement you must take either one course from Group a and one course from Group b or take both HIST 101 and 102.

ANTHR 101	Biological Anthropology -or-	CSU GE: D / IGETC: 4
ANTHR 102	Cultural Anthropology	CSU GE: D / IGETC: 4
CLDDV 103	Child Growth & Development	CSU GE: D / IGETC: 4
ECON 101	Principles of Macroeconomics	CSU GE: D / IGETC: 4
HE 115	Drugs, Health & Society	CSU GE: E / IGETC: 4
HIST 101	History of the United States to 1877	CSU GE: D / IGETC: 4 <sup>1</sup>
HIST 102	History of the United States since 1865	CSU GE: D / IGETC: 4 <sup>1</sup>
POLSC 101	American Politics	CSU GE: D / IGETC: 4 <sup>2</sup>
PSYCH 101	General Psychology -or-	CSU GE: D / IGETC: 4
PSYCH 104	Introduction to Social Psychology	CSU GE: D / IGETC: 4

<sup>1</sup> HIST 101 and HIST 102 meet the IGETC US History, Constitution and American ideas Group a requirement.

<sup>2</sup> POLSC 101 meets the IGETC US History, Constitution and American ideas Group a requirement.

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.