

# Computer Science AS-Computer Programming Option Coursework Roadmap

## Instructions:

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

1. Take CSCI 270.
2. Take CSCI 203 or 210.
3. Take MATH 111 (maybe with MATH 33) or highest math placement.
4. Take ART 102/CMPGR 202 or pick any two units of MJC Activities courses.
5. Take COMM 100, COMM 102, COMM 110 or elective.<sup>1</sup>
6. Take CSCI 271.
7. Take CSCI 203 or 210.
8. Take ENGL 100 or 101.
9. Pick one course from the list of General Education Options –CSU GE: Area D / MJC GE: Area B.
10. If you intend to transfer to a CSU pick a General Education Options –CSU GE: E / MJC GE: Area E.
11. Pick a course from the list of General Education Options –CSU GE: C1.

<sup>1</sup> This course a CSU GE requirement. If you are using MJC GE you can choose and elective numbered between 50-399.

## Course Selections:

Course Selections:	Units	Term
1. CSCI 270	<u>3</u>	_____
2. CSCI 203 or 210	<u>3</u>	_____
3. MATH 111 (MATH 33) or _____	<u>3-6</u>	_____
4. ART 102/ or _____ CMPGR 202 <small>Activities selection</small>	<u>2-3</u>	_____
5. Take COMM 100, 102 or 110	<u>3</u>	_____
6. CSCI 271	<u>3</u>	_____
7. CSCI 203 or 210	<u>3</u>	_____
8. ENGL 100 or 101	<u>3 or 5</u>	_____
9. _____ <small>general education selection</small>	<u>3</u>	_____
10. _____ <small>general education selection</small>	<u>3</u>	_____
11. _____ <small>general education selection</small>	<u>3</u>	_____

# Computer Science AS-Computer Programming Option Coursework Roadmap

## General Education Options – CSU GE: D / MJC GE: Area B

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.

Course #	Course Title	GE Area(s)
<b>Group a</b>		
<b>ECON 115</b>	Economic History of the United States	CSU GE: D/ IGETC: 4
<b>HIST 101</b>	History of the US until 1877	CSU GE: D/ IGETC: 4
<b>HIST 102</b>	History of the US since 1865	CSU GE: D/ IGETC: 4
<b>HIST 116</b>	Women in American History	CSU GE: D/ IGETC: 4
<b>HIST 154</b>	African Amer. History thru 19th Cent	CSU GE: D/ IGETC: 4
<b>HIST 155</b>	African Amer. History in 20 <sup>th</sup> /21 <sup>st</sup> Cent	CSU GE: D/ IGETC: 4
<b>Group b</b>		
<b>POLSC 101</b>	American Politics	CSU GE: D / IGETC:4
<b>POLSC 102</b>	The Constitution and Rights of Persons	CSU GE: D / IGETC:4
<b>POLSC 120</b>	California Politics and Problems	CSU GE: D / IGETC:4

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: Area E / MJC GE: Area E

Course #	Course Title	GE Area(s)
<b>HE 110</b>	Healthful Living – or-	CSU GE: E
<b>HE 111</b>	Women's Health Issues	CSU GE: E
<b>PSYCH 110</b>	Human Sexualities -or-	CSU GE: E / IGETC: 4
<b>PSYCH 130</b>	Personal Adjustment	CSU GE: E
<b>PSYCH 141</b>	Human Lifespans	CSU GE: E / IGETC: 4

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# Computer Science AS-Computer Programming Option Coursework Roadmap

## Instructions:

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

12. Pick one course from the CSCI AS electives table.
13. Pick one course from the CSCI AS electives table.
14. Pick one course from the list of General Education Options –CSU GE: Area D group a.<sup>1</sup>
15. Pick one course from the list of General Education Options –CSU GE: B1 or B2 / MJC GE: Area A.
16. Take MATH 111 or MATH 138 if you might transfer.<sup>2</sup>
17. Pick a course from the list of General Education Options –CSU GE: C2.<sup>1</sup>
18. Take CSCI 290.
19. Pick one course from the CSCI AS electives table.
20. Pick one course from the list of General Education Options –CSU GE: Area D group b.<sup>1</sup>
21. Take GUIDE 112.
22. Pick one course from the list of General Education Options –CSU GE: B 1 or B2.<sup>1</sup>
23. If you did not take ART 102/CMPGR 202 in Step 4, and you plan to transfer, take an additional CSU GE: Area C1 or C2 course.<sup>2</sup>

<sup>1</sup> This course a CSU GE requirement. If you are using MJC GE you can choose and elective numbered between 50-399.

<sup>2</sup> Recommended for transfer by area faculty. Please see your counselor.

## Course Selections:

Course Selections:	Units	Term
12. _____ Computer Programming electives selection	<u>3</u>	_____
13. _____ Computer Programming electives selection	<u>3</u>	_____
14. _____ general education selection	<u>3</u>	_____
15. _____ general education selection	<u>3 or 5</u>	_____
16. MATH 111 or 138	<u>4</u>	_____
17. _____ general education selection	<u>3 or 5</u>	_____
18. CSCI 290	<u>3</u>	_____
19. _____ Computer Programming electives selection	<u>3</u>	_____
20. _____ general education selection	<u>3</u>	_____
21. GUIDE 112	<u>1</u>	_____
22. _____ general education selection	<u>3-5</u>	_____
23. _____ general education selection	<u>3 or 5</u>	_____

# Computer Science AS-Computer Programming Option Coursework Roadmap

## Computer Programming Option Electives Table -Take 9 Units

Course #	Course Title
CSCI 204	Discrete Structures for Computer Science (3)
CSCI 211	UNIX/Linux Administration(3)
CSCI 221	Programming With Visual BASIC (3)
CSCI 222	Advanced Visual BASIC (3)
CSCI 252	Script Programming for the Web (3)
CSCI 253	Web Database Development (3)
CSCI 272	Problem Solving and Programming 2 (3)
CSCI 273	Assembly Language Programming (3)
CSCI 274	Windows Programming With Visual Studio (3)

## General Education Options – CSU GE: Area D / MJC GE: Area B

Course #	Course Title	GE Area(s)
COMM 130	Intercultural Communication -or-	CSU GE: D / IGETC: 4
COMM 132	Introduction to Mass Communication	CSU GE: D / IGETC: 4
ECON 101	Principles of Macroeconomics	CSU GE: D / IGETC: 4
ECON 102	Principles of Microeconomics	CSU GE: D / IGETC: 4
HIST 101	History of the United States to 1877	CSU GE: D / IGETC: 4
HIST 102	History of the United States since 1865	CSU GE: D / IGETC: 4
POLSC 180	Human Rights	CSU GE: D / IGETC: 4

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## General Education Options – CSU GE: B1 & B2 / MJC GE: Area A

Course #	Course Title	GE Area(s)
<b>Physical Sciences</b>		
EARSCI 161	Earth Science	CSU GE: B1&B3 / MJC GE: A
PHYS 165	Introduction to Physics	CSU GE: B1&B3 / MJC GE: A
<b>Life Sciences</b>		
ANTHR 101	Biological Anthropology	CSU GE: B2 / IGETC: 5B
ENSCI 108	Environmental Conservation	CSU GE: B2 / IGETC: 5B
PSYCH 103	Introduction to Neuroscience	CSU GE: B2 / IGETC: 5B

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## General Education Options–CSU GE: Area C / MJC GE: Area C

Course #	Course Title	GE Area(s)
Art 160	Appreciation of Art	CSU GE: C1
CMPGR 202/ ART 102	Introduction to Computer Graphics Introduction to Computer Graphics	CSU GE: C1 CSU GE: C1
COMM 132	Introduction to Mass Communication	CSU GE: C1 / IGETC: 3A
MUSG 101	Music Appreciation	CSU GE: C1 / IGETC: 3A
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ENGL 162	History of Cinema	CSU GE: C2 / IGETC: 3A
HUMAN 101	Introduction to the Humanities	CSU GE: C2 / IGETC: 3B
PHILO 101	Introduction to Philosophy -or-	CSU GE: C2 / IGETC: 3B
PHILO 111	Ethics: Theory & Application	CSU GE: C2 / IGETC: 3B

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.