

# Computer Science AS-Networking 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 240.
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 203 or 240.
7. Pick one course from the CSCI AS electives table.
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 240  | <u>3</u>      | _____ |
| 3. MATH 111 (MATH 33)<br>or _____                                     | <u>3-6</u>    | _____ |
| 4. ART 102/ or _____<br>CMPGR 202 <small>Activities selection</small> | <u>2-3</u>    | _____ |
| 5. Take COMM 100, 102 or 110  | <u>3</u>      | _____ |
| 6. CSCI 203 or 240  | <u>3</u>      | _____ |
| 7. _____<br><small>Networking electives selection</small>             | <u>3</u>      | _____ |
| 8. ENGL 100 or 101  | <u>3 or 5</u> | _____ |
| 9. _____<br><small>general education selection</small>                | <u>3</u>      | _____ |
| 10. _____<br><small>general education selection</small>               | <u>3</u>      | _____ |
| 11. _____<br><small>general education selection</small>               | <u>3</u>      | _____ |

# Computer Science AS-Networking 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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## Instructions:

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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 list of General Education Options –CSU GE: Area D group b.<sup>1</sup>
20. Take GUIDE 112.
21. Pick one course from the list of General Education Options –CSU GE: B 1 or B2.<sup>1</sup>
22. 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: Units Term

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

# Computer Science AS-Networking Option Coursework Roadmap

## Networking Option Electives Table -Take 9 Units

| Course # | Course Title                                      |
|----------|---|
| CSCI 210 | Introduction to UNIX/Linux System Programming (3) |
| CSCI 211 | UNIX/Linux Administration (3)                     |
| CSCI 213 | Windows Server OS (3)                             |
| CSCI 231 | Database Programming with SQL (3)                 |
| CSCI 232 | Database Server Administration (3)                |
| CSCI 241 | Advanced Networking & Security (3)                |
| CSCI 242 | Directory Services (3)                            |

## 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 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: Area C / MJC GE: Area C

| Course #              | Course Title   | GE Area(s)               |
|-----------------------|--|--------------------------|
| Art 160               | Appreciation of Art  | CSU GE: C1               |
| CMPGR 202/<br>ART 102 | Introduction to Computer Graphics<br>Introduction to Computer Graphics | CSU GE: C1<br>CSU GE: C1 |
| COMM 132              | Introduction to Mass Communication                                     | CSU GE: C1 / IGETC: 3A   |
| MUSG 101              | Music Appreciation   | CSU GE: C1 / IGETC: 3A   |
| <hr/>                 |  |                          |
| 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   |

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