









| San Francisco | ⁰ 800 Denver 2 120 1000 | Denver Chicago 0 2 1200 1000 | | | 1500 4 Boston 250 1000 5 New York | | | Example Source is Boston | | | | |
|---------------|--|------------------------------------|------|------|---|------|------|------------------------------------|------|------|--|--|
| Los Angeles | 1700 N | ew Orleans | 1000 | Miam | i | Dist | ance | | | | | |
| Iteration | S | Vertex | LA | SF | DEN | CHI | BOST | NY | MIA | NO | | |
| | en-route set | selected | [0] | [1] | [2] | [3] | [4] | [5] | [6] | [7] | | |
| Initial | | | +∞ | +∞ | +∞ | 1500 | 0 | 250 | +∞ | +∞ | | |
| 1 | {4} | 5 | +∞ | +∞ | +∞ | 1250 | 0 | 250 | 1150 | 1650 | | |
| 2 | {4,5} | 6 | +∞ | +∞ | +∞ | 1250 | 0 | 250 | 1150 | 1650 | | |
| 3 | {4,5,6} | 3 | +∞ | +∞ | 2450 | 1250 | 0 | 250 | 1150 | 1650 | | |
| 4 | {4,5,6,3} | 7 | 3350 | +∞ | 2450 | 1250 | 0 | 250 | 1150 | 1650 | | |
| 5 | {4,5,6,3,7} | 2 | 3350 | 3250 | 2450 | 1250 | 0 | 250 | 1150 | 1650 | | |
| 6 | {4,5,6,3,7,2} | 1 | 3350 | 3250 | 2450 | 1250 | 0 | 250 | 1150 | 1650 | | |
| | {4,5,6,3,7,2,1} | | | | | | i | <u>, i</u> | | | | |



































| Course number | Course name | Prerequisites |
|---------------|-------------------------|---------------|
| C1 | Programming I | None |
| C2 | Discrete Mathematics | None |
| C3 | Data Structures | C1, C2 |
| C4 | Calculus I | None |
| C5 | Calculus II | C4 |
| C6 | Linear Algebra | C5 |
| C7 | Analysis of Algorithms | C3, C6 |
| C8 | Assembly Language | C3 |
| C9 | Operating Systems | C7, C8 |
| C10 | Programming Languages | C7 |
| C11 | Compiler Design | C10 |
| C12 | Artificial Intelligence | C7 |
| C13 | Computational Theory | C 7 |
| C14 | Parallel Algorithms | C13 |
| C15 | Numerical Analysis | C5 |



































