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| JJC Logo Primary_black.jpg | **2019-2020 Completion Guide**  **Unix, C, and C++ Specialist, Certificate of Achievement, CO880**  **ICCB Approved Total Program Hours: 38** |
| Date | *The following schedule is based on full-time enrollment. Students planning to transfer to a senior institution should check with that institution for specific transfer requirements.* |
| Program Prerequisites |  |

**T= Traditional H = Hybrid W = Web**

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| **First Semester** | | | | | | |
| Course | Title | Credit Hours | Mode of Delivery | Prerequisites | Terms offered | Notes |
| CIS 122 | Computer Information Systems Fundamentals | 4 | T, H, W |  | FL, SP, SM |  |
|  | Total Semester Hours | 4 |  |  |  |  |

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| **Second Semester** | | | | | | |
| Course | Title | Credit Hours | Mode of Delivery | Prerequisites | Terms offered | Notes |
| CIS 159 | Introduction to Operating Systems and Scripts | 4 | T | CIS 122, or consent of department. | FL, SP |  |
| CIS 130\*  *or* CIS 136\*\* | BASIC Programming\* PASCAL Programming\*\* | 4 | T, W\*  W\*\* | CIS 122 and placement testing into MATH 127 or higher level Math course, or minimum grade of “C” in MATH 098. | FL, SP, SM\*  FL, SP\*\* |  |
| Elective |  | 3 |  |  |  |  |
|  | Total Semester Hours | 11 |  |  |  |  |

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| **Third Semester** | | | | | | |
| Course | Title | Credit Hours | Mode of Delivery | Prerequisites | Terms offered | Notes |
| CIS 230 | Visual Basic | 4 | T, W | CIS 130 or CIS 136 or equivalent. | FL, SP |  |
| CIS 236 | Programming in C | 4 | T, W | CIS 130 or CIS 136 (CIS 136 is strongly recommended) | FL, SP, SM |  |
| CIS 259 | Advanced Operating System Concepts | 4 | T | CIS 159 or consent of department. |  |  |
| Elective |  | 3 |  |  |  |  |
|  | Total Semester Hours | 15 |  |  |  |  |

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| **Fourth Semester** | | | | | | |
| Course | Title | Credit Hours | Mode of Delivery | Prerequisites | Terms offered | Notes |
| CIS 246 | Advanced C using C++ | 4 | T, W | CIS 236 or consent of department and placement into MATH 127 or higher level MATH course, or minimum grade of “C” in MATH 098. | FL, SP, SM |  |
| Elective |  | 4 |  |  |  |  |
|  | Total Semester Hours | 8 |  |  |  |  |

**Graduation Requirements**

To be awarded an Associate degree at Joliet Junior College, each student must meet the following requirements:

1. Satisfy all admission requirements.

2. Complete the courses required to earn the chosen degree. If the student is a transfer student with coursework taken elsewhere, he/she must complete a minimum of 15 hours at JJC. Proficiency test, CLEP and Advanced Placement do not meet this requirement.

3. Earn a cumulative grade point average of at least 2.0.

4. Discharge all financial obligations to the college; have no restrictions.

5. File an application for graduation (An application should be filed at the time of registration for student’s anticipated last semester).

6. Have on file in the Graduation office by the graduation filing date all transcripts from other colleges/universities that are to be evaluated for credit, to be applied toward a degree. A delay in the process may result in a later graduation date.

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| Student Advising Center  [academicadvising@jjc.edu](mailto:academicadvising@jjc.edu) 815-280-2673 | Department Chairperson | Program Coordinator | Program Advisor |
| Jeff Bradford |  |  |
| (815) 280-2403  jbradfor@jjc.edu |  |  |