JOLIET JUNIOR COLLEGE	2023-2024 Completion Guide Unix, C, and C++ Specialist, Certificate of Achievement, CO880 ICCB Approved Total Program Hours: 38
Date: March 30, 2023	*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

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				

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				

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				

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 a Certificate of Achievement or Certificate of Completion at JJC, each student must meet the following requirements:
1. Satisfy all admission requirements.
2. Complete the courses required to earn the chosen certificate. Complete a minimum of 4-29 credit hours (Certificate of Completion) or 30-50 credit hours (Certificate of Achievement). If the student is a transfer student with coursework taken elsewhere, he/she must complete a minimum of 25% of the total required credit hours applicable to the certificate 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 in the area of concentration.
4. Discharge all financial obligations to the college and have no restrictions.
5. File an application for graduation. An application should be filed at the time of registration for the student's anticipated last semester.
6. Have all official transcripts from other college/universities on file in the Graduation Office by the graduation filing date for evaluation of credit. A delay in the process may result in a later graduation date.

Student Advising Center	Department Chairperson	Program Coordinator	Program Advisor
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