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| JJC Logo Primary_black.jpg | **2019-2020 Completion Guide****Computer Engineering Technology (Software Development Option), Associate in Applied Science, TE829****ICCB Approved Total Program Hours: 64** |
| 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 |
| ENG 101 | Rhetoric | 3 | T, W | Appropriate placement score; or minimum grade “C” in one of the following: ENG 021 and ENG 099, or ENG 022 or ENG 099, or the EAP course sequence ENG 079 and ENG 089 or ENG 096. | FL, SP, SM |  |
| EET 102 | Electronic Soldering Circuit Board Rework and Repair | 2 | T |  |  |  |
| EET 113 | Electrical Circuits | 4 | T |  |  |  |
| MATH 131\*, 137\*\*, 138\*\*\* or 170\*\*\*\* | College Algebra\*, Into to Discrete Mathematics\*\*, Pre-Calculus Mathematics\*\*\*, or Calculus with Analytic Geometry I\*\*\*\* | 4\*4\*\*4\*\*\*5\*\*\*\* | T | Appropriate placement score or minimum grade “C” in MATH 095 and MATH 098 or equivalent.\*Appropriate placement score or minimum grade “C” in MATH 137, or MATH 138, or MATH 142 or equivalent.\*\*Appropriate placement score or minimum grade “C” in MATH 095 and MATH 098 or equivalent.\*\*\*Appropriate placement score or minimum grade of “C” in MATH 139 or MATH 142 or equivalent.\*\*\*\* | FL, SP, SM\*FL, SP\*\*FL, SP, SM\*\*\*FL, SP, SM\*\*\*\* |  |
| CIS 122 | Computer Info System Fundamentals | 4 | T, H, W |  | FL, SP, SM |  |
|  | Total Semester Hours | 17 |  |  |  |  |

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| **Second Semester** |
| Course | Title | Credit Hours | Mode of Delivery | Prerequisites | Terms offered | Notes |
| EET 125 | Solid State Circuitry | 4 | T | Minimum grade of “C” in EET 113 |  |  |
| EET 114 | Digital Electronics | 4 | T |  |  |  |
| CIS 130 | Basic Programming | 4 | T, 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 |  |
| CIS 136 | PASCAL Programming | 4 | W | CIS 122 and placement testing into MATH 127 or higher level Math course, or minimum grade of “C” in MATH 098. | FL, SP |  |
|  | Total Semester Hours | 16 |  |  |  |  |

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| **Third Semester** |
| Course | Title | Credit Hours | Mode of Delivery | Prerequisites | Terms offered | Notes |
| PHYS 101\**or* PHYS 103\*\* | General Physics I\**or* Technical Physics\*\* | 5\*4\*\* | T | Placement into ENG 101 or minimum grade of "C" in one of the following: ENG 021 and ENG 099; or ENG 022 and ENG 099; or the EAP course sequence ENG 079 and ENG 089, or ENG 096; and placement score into MATH 170, or minimum grade "C" in MATH 139.\*Placement into ENG 101 or minimum grade of "C" in one of the following: ENG 021 and ENG 099; or ENG 022 and ENG 099; or the EAP course sequence ENG 079 and ENG 089, or ENG 096; and placement into MATH 094or minimum grade "C" in MATH 090 or equivalent. Recommended: TMAT 107 (previously MATH 107) or TMAT 108 (previously MATH 108).\*\* | FL, SP, SM\*FL, SP\*\* |  |
| EET 214 | Microcomputer Electronics | 4 | T | Minimum grade of “C” in EET 114 |  |  |
| CIS 236 | Programming in C | 4 | T, W | CIS 130 or CIS 136 (CIS 136 is strongly recommended) | FL, SP, SM |  |
| EET Elective |  | 4 |  |  |  |  |
|  | Total Semester Hours | 17/16 |  |  |  |  |

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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 |  |
| EET 224 | Advanced Microcomputer Electronics | 4 | T | Minimum grade of “C” in EET 214. |  |  |
| Group II Gen Ed |  | 3 |  |  |  |  |
| Group I-V Gen Ed |  | 4 |  |  |  |  |
|  | Total Semester Hours | 15 |  |  |  |  |

**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 given degree. If the student is a transfer student with coursework taken elsewhere, he/she must complete a minimum of 60 credit hours of which 15 credit hours applicable to the degree are earned at JJC. Proficiency test, CLEP and Advanced Placement does 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 the student’s anticipated last semester.)

6. Have all official transcripts from other colleges/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.

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| For more information: | **Department Chairperson** | **Program Coordinator** | **Program Advisor** |
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