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| JJC Logo Primary_black.jpg | **2020-2021 Completion Guide**  **Computer Aided Design and Drafting, A.A.S., TE260**  **ICCB Approved Total Program Hours: 60 Semester Hours** |
| Date: September 1, 2020 | *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 126 | Microsoft Office | 3 | W,T |  | FL/SP/SM |  |
| EGR 101 | Engineering Graphical Communications | 4 | T | Math 095 or equivalent | FL |  |
| CADD 101 | 2D Computer Aided Design and Drafting I | 3 | T | Math 095 or consent of department | FL/SP/SM |  |
| MATH 119 or 139 | Mathematics for Technical Students or Pre-Calculus II: Trigonometry | 4 to 5 | T | Appropriate placement score or minimum grade “C” in MATH 095 and MATH098 or equivalent. MATH 139 – Appropriate placement score or minimum grade “C” in MATH 138 or equivalent | FL/SP |  |
| ENG 101 or ENG 130 | Rhetoric or Technical Writing & Communication | 3 | T | Appropriate placement into Eng. 101 or “C” in Eng. 099 & Eng. 021 or Eng. 096, Eng. 078 and Eng. 079, Eng. 088 and Eng. 089 | FL/SP/SM |  |
|  | Total Semester Hours | **17-18** |  |  |  |  |

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| **Second Semester** | | | | | | |
| Course | Title | Credit Hours | Mode of Delivery | Prerequisites | Terms offered | Notes |
| CADD 110 | 2D Computer Aided Design and Drafting I | 3 | T | CADD 101 plane geometry or consent of department | FL/SP |  |
| EGR 102 | Engineering Graphics | 4 | T | EGR 101 | SP |  |
| PHYS 100 | Basic Physics | 4 | T | Appropriate placement into ENG 101 or minimum grade “C” in one of the following: ENG 021 and ENG 099, or the EAP course sequence ENG 079 and ENG 089, or ENG 096; and appropriate placement score or minimum grade “C” in MATH 139 which may be taken concurrently. | FL/SP |  |
| **OR** PHYS 101 | General Physics I | 5 | T | Appropriate placement into ENG 101 or minimum grade of “C” in 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 170, or minimum grade “C” in MATH 139. | FL/SP |  |
| MFG 101 | Precision Machine Tool Technology I | 4 | T | CADD 101 plane geometry or consent of department | FL/SP |  |
|  | Total Semester Hours | **15-16** |  |  |  |  |

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| **Third Semester** | | | | | | |
| Course | Title | Credit Hours | Mode of Delivery | Prerequisites | Terms offered | Notes |
| CADD 260 | Autodesk Inventor Pro - 3D Solid Modeling | 3 | T | CADD 101, CADD 120, and EGR 101, or consent of the department | FL/SP |  |
| AEC 207 | Structural Planning and Analysis | 3 | T | MATH 119 or MATH 138 | **FL** |  |
| MFG 115 OR 200 | Blueprint Reading for Manufacturing & Welding | 3 | T | MFG 200 Pre-requisite: MFG 115 or CADD 101 | FL/SP |  |
| CADD 120 | 3D Computer Aided Design & Drafting I | 3 | T | CADD 101, and EGR 101 or consent of department | FL/ SP |  |
| SOCIAL SCIENCE | Select one course from Group II Social and Behavioral Sciences | 3 | T | CADD 101 and CADD 120 with a minimum grade of C or consent of department | FL/SP/SM |  |
|  | Total Semester Hours | **15** |  |  |  |  |

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| **Fourth Semester** | | | | | | |
| Course | Title | Credit Hours | Mode of Delivery | Prerequisites | Terms offered | Notes |
| CADD 270 | Solidworks – Parametric 3D Solid Modeling | 3 | T | CADD 101, CADD 120, and EGR 101, or consent of the department | FL/SP/SM |  |
| CORE PROGRAM ELECTIVES | Any CADD course elective | 3 | T | Appropriate pre-requisites as listed in the catalog for each class | FL/SP | Students may select 6 hours from any CADD courses. |
| EEAS 101 | Basic Wiring and Circuit Design | 4 | T |  | FL/SP |  |
| DEPT. ELECTIVE | Choose from any Technical Department Course | 3 | T | CADD 101 or an experienced drafter, designer or engineer | FL/SP/SM |  |
|  | Total Semester Hours | **13** |  |  |  |  |

**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 credit hours applicable to the degree at Joliet Junior College. 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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| For more information: | **Department Chairperson** | **Program Coordinator** | **Program Advisor** |
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