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| JJC Logo Primary_black.jpg | **2019-2020 Completion Guide****Operations Engineering, A.A.S., TE140****ICCB Approved Total Program Hours: 66** |
| Date: September 1, 2019 | *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 | *1) Complete an application to the college found at www.jjc.edu/admissions and select the following choice**Operations Engineering, AAS**Operations Engineering, CAC**2) High School transcript or GED on file with the Admissions Office verifying completion.**3) Placement into the following courses based on degree type; ENG 101 and Math 138 or higher**4) All college transcripts (other than JJC) must be evaluated and placed on record prior to submission of your application for the program.**5) Schedule an appointment with the OET advisor to review documents and the procedure* |

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

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| **First Semester** |
| Course | Title | Credit Hours | Mode of Delivery | Prerequisites | Terms offered | Notes |
| EEAS 101 | Basic Wiring and Circuit Design | 4 | T |  | Fall |  |
| ENG 101 | Rhetoric | 3 | T,H,W | Placement score | All |  |
| MATH 138 | Pre-Calculus I: Algebra | 4 | T | Appropriate placement score or minimum grade “C” in MATH 095 and MATH 098 or equivalent.  | All | Math 142 may be taken in place of Math 138 and 139 |
| OET 101 | Intro to Industrial Plant | 4 | T | Consent of the Department. The student must be admitted into the OET Program and be pursuing one of its degrees or certificates. |  |  |
|  | Total Semester Hours | 15 |  |  |  |  |

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| **Second Semester** |
| Course | Title | Credit Hours | Mode of Delivery | Prerequisites | Terms offered | Notes |
| Math 139 | Pre-Calculus II: Trigonometry | 4 | T | Appropriate placement score or minimum grade “C” in MATH 138 or equivalent. | All | Not required if Math 142 was passed first semester.  |
| CHEM 101 | General Chemistry I | 5 | T | One year of high school chemistry or minimum grade “C” in CHEM 100; and 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 138 or minimum grade “C” in MATH 098.  | Spring |  |
| EEAS 111 | Industrial Controls I | 4 | T |  |  | This course is a closed course and for students in the OET Program only |
| IMT 101 | Industrial Maintenance Fundamentals | 3 | T |  |  | This course is a closed course and for students in the OET Program only |
| OET 291 | Operations Career Development | 1 | T | OET 295 or consent of Department. |  | This course is a closed course and for students in the OET Program only |
|  | Total Semester Hours | 17 |  |  |  |  |

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| **Summer Semester** |
| Course | Title | Credit Hours | Mode of Delivery | Prerequisites | Terms offered | Notes |
| Internship 295 | OET Internship | 5 | T |  | Summer | This course is a closed course and for students in the OET Program only |
| Group II | Social and Behavioral Sciences | 3 | T, H, W |  | All |  |
|  | Total Semester Hours | 8 |  |  |  |  |

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| **Third Semester** |
| Course | Title | Credit Hours | Mode of Delivery | Prerequisites | Terms offered | Notes |
| PHYS 101 | General Physics I | 5 | T | 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. | Fall |  |
| EEAS 113 | Industrial Controls II | 4 | T | Minimum grade “C” in EEAS 111  |  | This course is a closed course and for students in the OET Program only |
| IMT 111 | Mechanical Power Transmission | 3 | T |  |  | This course is a closed course and for students in the OET Program only |
| IMT 121 | Industrial Fluid Power | 3 | T |  |  | This course is a closed course and for students in the OET Program only |
|  | Total Semester Hours | 15 |  |  |  |  |

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| **Fourth Semester** |
| Course | Title | Credit Hours | Mode of Delivery | Prerequisites | Terms offered | Notes |
| PHYS 102 | General Physics II | 5 | T | Minimum grade “C” in PHYS 101 and 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. | Spring |  |
| EEAS 215 | Process Control & Instrumentation | 4 | T | Minimum grade “C” in EEAS 113 |  | This course is a closed course and for students in the OET Program only |
| IMT 112 | Rotating Equipment | 3 | T |  |  | This course is a closed course and for students in the OET Program only |
| EGR 160 | Applied Thermodynamics | 3 | T | MATH 139 or MATH 142, and PHYS 102  |  | This course is a closed course and for students in the OET Program only |
|  | 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 chosen degree. If the student is a transfer student with coursework taken elsewhere, he/she must complete a minimum of 60 credit hours of which the last 15 credit hours applicable to the degree are earned at Joliet Junior College. If the student has not taken the last 15 hours at JJC, then a total of 30 credit hours applicable to the degree must be earned 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** |
| Name: Jeff Bradford | Name: Michael Wolverton | Name: Michael Wolverton |
| E-mail: jbradford@jjc.edu | E-mail: mwolvert@jjc.edu | E-mail: mwolvert@jjc.edu |
| Phone: 815.280.2403 | Phone: 815.280.6778 | Phone: 815.280.6778 |