

# JAC<sup>3</sup> = E/MC

College. Career. Connection.

## ASSOCIATE'S IN ADVANCED MANUFACTURING INDUSTRY 4.0

(Sample Program of Studies Beginning Fall 2021)

|                              | Fall  | Winter  | Summer  |
|------------------------------|---|---|---|
| <b>11<sup>th</sup> Grade</b> | <ul style="list-style-type: none"> <li>• HS 3<sup>rd</sup> Year Math</li> <li>• HS 3<sup>rd</sup> Year Science</li> <li>• HS 3<sup>rd</sup> Year Social Studies</li> <li>• HS 3<sup>rd</sup> Year English</li> </ul>  | <ul style="list-style-type: none"> <li>• HS 3<sup>rd</sup> Year Math</li> <li>• HS 3<sup>rd</sup> Year Science</li> <li>• HS 3<sup>rd</sup> Year Social Studies</li> <li>• HS 3<sup>rd</sup> Year English</li> <li>• SEM 140B-First Year Seminar</li> </ul> | <ul style="list-style-type: none"> <li>• MFG 135-Industrial Safety~*</li> </ul>   |
| <b>12<sup>th</sup> Grade</b> | <ul style="list-style-type: none"> <li>• HS 4<sup>th</sup> Year English</li> <li>• CAD 152-SolidWorks</li> <li>• MFG 136-Blueprint Reading &amp; Precision Measurement~</li> <li>• ELT 106-Basic Electricity &amp; Fluid Systems</li> </ul>                     | <ul style="list-style-type: none"> <li>• HS 4<sup>th</sup> Year English</li> <li>• MFG 137-Fabrication &amp; Machining~</li> <li>• ELT 220-Industrial Motion Control</li> <li>• ELT 260-Basic Programmable Controllers</li> </ul>                           | <ul style="list-style-type: none"> <li>• ELT 261-Advanced PLC</li> <li>• MFG 210-Intro to Robotics Technology</li> <li>• Could take other required college classes</li> </ul> |
| <b>13<sup>th</sup> Grade</b> | <ul style="list-style-type: none"> <li>• MFG 215-Robotics Applications &amp; Machine Vision</li> <li>• GEO #7-Elective Credit (HUM 131-Cultural Connections)</li> <li>• COM 231-Communication Foundations</li> <li>• MAT 130-Quantitative Reasoning^</li> </ul> | <ul style="list-style-type: none"> <li>• MFG 260-Intro to IIOT</li> <li>• PHY 131-Conceptual Physics^</li> <li>• ENG 131-Writing Experience I</li> <li>• GEO #6-Elective Credit (MUS 131-Intro to Music)</li> </ul>   | <ul style="list-style-type: none"> <li>• GEO #5-Elective Credit (ECN 231-Macroeconomics)</li> </ul>   |

CPT Certificate Only

Industry 4.0 Automation & Robotics Certificate Only (must also include CPT Certificate)

^ = Final Year Math Credit Option

\* = Articulated Credit with Jackson College (JACC Welding)

~ = Articulated Credit with Jackson College (JACC Precision Machining)