



## Manufacturing SHSM St. Mary's H.S.



**Courses listed below will count toward your SHSM designation in any Pathway**  
(APPRENTICESHIP, COLLEGE, UNIVERSITY, or WORKPLACE)

### Choose 4 Major Credits related to Manufacturing Sector

*Minimum one Grade 11 & one Grade 12 credit AND two credits from Grade 11 or Grade 12 (one of which can be an additional Co-op Credit)*

| Major Credits in Grade 11 |              | Major Credits in Grade 12  |              |
|---------------------------|--------------|--|--------------|
| Computer Science          | ICS3C, ICS3U | Computer Science   | ICS4C, ICS4U |
| Chemistry                 | SCH3U        | Interdisciplinary Studies  | IDC4U        |
| Physics                   | SPH3U        | Chemistry  | SCH4C, SCH4U |
| Construction Technology   | TCJ3E        | Physics  | SPH4C, SPH4U |
| Design Technology         | TDJ3M        | Construction Technology  | TCJ4C        |
| Fashion Design            | TDP3M        | Design Technology  | TDJ4M        |
| Computer Engineering      | TEJ3M        | Fashion Design   | TDP4M        |
| Robotics                  | TER3M        | Computer Engineering   | TEJ4M        |
| Communications Technology | TGJ3M        | Robotics   | TER4M        |
| Manufacturing Technology  | TMJ3C, TMJ3E | Communications Technology  | TGJ4M        |
| Transportation Technology | TTJ3C        | Manufacturing  | TMJ4C, TMJ4E |
| Woodworking Technology    | TWJ3E        | Transportation Technology  | TTJ4C        |
|                           |              | Woodworking Technology   | TWJ4E        |
|                           |              | <b>Dual Credit Courses include:</b> Basic Design A and B, Welding, Electrical Fundamentals, and a couple OYAP Level 1 Programs. See your Guidance Counselor for more information |              |

### Choose 1 English Credit

**ENG3C** or **ENG4C** - English, College

**ENG3U** or **ENG4U** - English, University

**ENG3E** or **ENG4E** - English, Workplace/Apprenticeship

**OLC4O** - Ontario Secondary School Literacy Course

### Choose 1 Math Credit

|                                     |       |  |       |
|-------------------------------------|-------|--|-------|
| Foundations for College Mathematics | MAP4C | Calculus and Vectors                   | MCV4U |
| Foundations for College Mathematics | MBF3C | Mathematics and Data Management        | MDM4U |
| Functions & Applications            | MCF3M | Mathematics for Work and Everyday Life | MEL3E |
| Functions                           | MCR3U | Mathematics for Work and Everyday Life | MEL4E |
| Mathematics for College Technology  | MCT4C | Advanced Functions                     | MHF4U |

### Choose 1 Other Credit from the list below (or an additional Co-op Credit)

|  |                            |                         |                     |
|--|----------------------------|-------------------------|---------------------|
| Entrepreneurship                         | BDI3C                      | Chemistry               | SCH3U, SCH4C, SCH4U |
| Learning Strategies                      | GLE4O, GLS4O               | Earth and Space Science | SES4U               |
| Computer Programming or Computer Science | ICS3C, ICS3U, ICS4C, ICS4U | Workplace Science       | SNC4E               |
| Math - Workplace                         | MEL3E, MEL4E               | Physics                 | SPH3U, SPH4C, SPH4U |
| Ontario Literacy Course                  | OLC4O                      | Environmental Science   | SVN3M               |
| Biology                                  | SBI3C, SBI3U, SBI4U        |                         |                     |

### Choose a Manufacturing-Focused Cooperative Education Experience (2 Credits)

Co-op Credits can be Regular Co-op, Summer Co-op, or UCEP, your Dual Credit program, or through Credits@Work at St. Louis. See Guidance for more information.

**Total number of Credits needed: 9**