



**Mechanical Drafting & Design AAS  
Program Course Requirements  
2010-2011**  
*revised 3/29/10*

**Student Name** \_\_\_\_\_ **Student ID#** \_\_\_\_\_

| Course # | Course Title | Credits | Lecture Hrs | Lab Hrs |
|----------|--------------|---------|-------------|---------|
|----------|--------------|---------|-------------|---------|

**REQUIRED COURSES**

|                |  |           |   |   |
|----------------|--|-----------|---|---|
| ___ MATH 1500  | Applied Math (on campus)                       | 3         | 3 | 0 |
| Or MATH 1470   | College Algebra (web based)                    | 3         | 3 | 0 |
| Or MATH 1506   | Beginning College Algebra (web based)          | 4         | 4 | 0 |
| Or             | Instructor Approved Substitute                 |           |   |   |
|                |  |           |   |   |
| ___ MDFT 1104  | Theory of Shape Description                    | 4         | 1 | 6 |
| ___ MDFT 1110  | Intro to Parametric Modeling                   | 2         | 1 | 2 |
| ___ MDFT 1121* | Engineering Drawings                           | 5         | 1 | 8 |
| ___ MDFT 1136* | Sections & Auxiliary Views                     | 4         | 1 | 6 |
| ___ MDFT 2101  | Specialized Drawing & Dimensioning             | 4         | 1 | 6 |
| ___ MDFT 2114  | Basic Solid Modeling                           | 4         | 1 | 6 |
| ___ MDFT 2116* | Geometric Dimensioning & Tolerancing           | 3         | 2 | 2 |
| ___ MDFT 2161* | Plastic Design                                 | 4         | 1 | 6 |
| ___ MDFT 2164* | Sheetmetal Design                              | 3         | 1 | 4 |
| ___ MDFT 2176* | Machine Design                                 | 4         | 1 | 6 |
|                |  |           |   |   |
| ___ MTRD 1265  | CNC Prog. and Process Planning (on campus)     | 2         | 2 | 0 |
| Or CMAE 1510   | Center of Excellence Print Reading (web-based) |           | 2 | 0 |
|                |  |           |   |   |
| ___ RAST 1110  | Intro to Manufacturing (on campus)             | 2         | 1 | 2 |
| Or CMAE 1518   | Center of Excellence Mfg. Processes (web)      | 2         | 2 | 0 |
|                | <b>Total</b>                                   | <b>44</b> |   |   |

**GENERAL EDUCATION**

Students must complete the requirement listed in the AAS Degree/General Education Transfer Curriculum document.

**Total** **16**

**GRADUATION REQUIREMENT** **60**

\*Denotes Prerequisites

In order to receive a degree, diploma, or certificate from Central Lakes College, students must complete one-third of their credits at Central Lakes College. For programs exceeding 60 credits, a maximum of 20 semester credits must be completed at Central Lakes College.

**Evaluator** \_\_\_\_\_ **Date** \_\_\_\_\_



A COMMUNITY & TECHNICAL COLLEGE

## Mechanical Drafting & Design AAS Program Course Requirements 2010-2011

| Course #                          | Course Title                                   | Credits   | Lecture Hrs | Lab Hrs |
|-----------------------------------|--|-----------|-------------|---------|
| <b><u>FIRST YEAR</u></b>          |  |           |             |         |
| <b>FALL SEMESTER</b>              |  |           |             |         |
| MATH 1500                         | Applied Math                                   | 3         | 3           | 0       |
| Or MATH 1470                      | College Algebra (web based)                    | 3         | 3           | 0       |
| Or MATH 1506                      | Beginning College Algebra (web based)          | 4         | 4           | 0       |
| Or Instructor Approved Substitute |  |           |             |         |
| MDFT 1110                         | Intro to Parametric Modeling                   | 2         | 1           | 2       |
| MDFT 1121*                        | Engineering Drawings                           | 5         | 1           | 8       |
| MDFT 1104                         | Theory of Shape Description                    | 4         | 1           | 6       |
| MTRD 1265                         | CNC Programming and Process Planning           | 2         | 2           | 0       |
| Or CMAE 1510                      | Center of Excellence Print Reading (web-based) | 2         | 2           | 0       |
| RAST 1110                         | Intro to Manufacturing                         | 2         | 1           | 2       |
| Or CMAE 1518                      | Center of Excellence Mfg. Processes (web)      | 2         | 2           | 0       |
| <b>Total</b>                      |  | <b>18</b> |             |         |
| <b>SPRING SEMESTER</b>            |  |           |             |         |
| MDFT 1136*                        | Sections & Auxiliary Views                     | 4         | 1           | 6       |
| MDFT 2101                         | Specialized Drawing & Dimensioning             | 4         | 1           | 6       |
| MDFT 2114                         | Basic Solid Modeling                           | 4         | 1           | 6       |
| MDFT 2116*                        | Geometric Dimensioning & Tolerancing           | 3         | 2           | 2       |
| MDFT 2164*                        | Sheetmetal Design                              | 3         | 1           | 2       |
| <b>Total</b>                      |  | <b>18</b> |             |         |
| <b>SUMMER SEMESTER</b>            |  |           |             |         |
| MDFT 2161*                        | Plastic Design                                 | 4         | 1           | 6       |
| MDFT 2176*                        | Machine Design                                 | 4         | 1           | 6       |
| <b>Total</b>                      |  | <b>8</b>  |             |         |
| <b><u>SECOND YEAR</u></b>         |  |           |             |         |
| <b>FALL SEMESTER</b>              |  |           |             |         |
| General Education                 |  | 16        |             |         |
| <b>GRADUATION REQUIREMENT</b>     |  | <b>60</b> |             |         |

\*Denotes Prerequisites

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