



## Wind Energy Technology - Academic Planner

Associate of Applied Science Degree: 10-482-1

Campus: Fond du Lac/Shared Program with Lakeshore Technical College (Wind courses available only through Lakeshore Technical College)

Curriculum for 2014-2015

2/1/2014

Program Advisor: \_\_\_\_\_

| Lakeshore Course Offerings |     |        |     |  |     |       |             |           |                   |   | Moraine Park Course Offerings  |   |   |   |     |       |             |         |              |    |                                   |                            |  |  |
|----------------------------|-----|--------|-----|--|-----|-------|-------------|-----------|-------------------|---|--|---|---|---|-----|-------|-------------|---------|--------------|----|-----------------------------------|----------------------------|--|--|
| ✓                          | T/G | Course |     | Hours / Week   |     |       | Total Hours | Credits   | Typically Offered |   |  | Course Subj                                   | Num   | Hours / Week  |     |       | Total Hours | Credits | Offered at   |    | Prerequisites and/or Corequisites |                            |  |  |
|                            |     | Subj   | Num | Lec  | Lab | Other |             |           | S                 | F | SP   |   |   | Lec   | Lab | Other |             |         | Moraine Park |    |                                   |                            |  |  |
| <b>Term 1:</b>             |     |        |     |  |     |       |             |           |                   |   | <b>Term 1:</b>   |   |   |   |     |       |             |         |              |    |                                   |                            |  |  |
|                            |     |        |     |  |     |       |             |           |                   |   | <b>New Program Students: Attend New Student Orientation and your Priority Registration Session</b> |   |   |   |     |       |             |         |              |    |                                   |                            |  |  |
|                            | T   | 413    | 110 | Introduction to Energy   |     |       |             | 2         |                   | x |  |   | available only at Lakeshore Technical College |   |     |       |             |         |              |    |                                   |                            |  |  |
|                            | T   | 482    | 101 | Introduction to Wind Systems   |     |       |             | 3         |                   | x |  |   | available only at Lakeshore Technical College |   |     |       |             |         |              |    |                                   |                            |  |  |
|                            | T   | 620    | 103 | Fluid Power 1  |     |       |             | 2         |                   | x |  | 620   | 105   | Industrial Hydraulics and Pneumatics 1              |     |       | 1           | 2       |              | 54 | 2                                 | Spring/Term 3              |  |  |
|                            | T   | 660    | 105 | DC Fundamentals  |     |       |             | 3         |                   | x |  | 620   | 101   | DC Circuits   |     |       | 2           | 2       |              | 72 | 3                                 | Fall/Term 1<br>1st 8 Weeks | Completion of or concurrent enrollment in 804-113 College Technical Mathematics 1A                   |  |
|                            | G   | 804    | 115 | College Technical Mathematics 1  |     |       |             | 5         |                   | x |  | 804   | 113   | College Technical Mathematics 1A                    |     |       | 3           |         |              | 54 | 3                                 | Every Semester             | Completion of or concurrent enrollment in 804-113 College Technical Mathematics 1A                   |  |
|                            | G   | 809    | 198 | Introduction to Psychology   |     |       |             | 3         |                   | x |  | 809   | 199   | Psychology of Human Relations (or)                  |     |       | 3           |         |              | 54 | 3                                 | Every Semester             |  |  |
|                            |     |        |     |  |     |       |             |           |                   |   |  | 809   | 198   | Introduction to Psychology                          |     |       |             |         |              |    |                                   | Every Semester             |  |  |
| Total 1st Term Credits     |     |        |     |  |     |       |             | <b>18</b> |                   |   |  |   |   |   |     |       |             |         |              |    |                                   |                            |  |  |
| <b>Term 2:</b>             |     |        |     |  |     |       |             |           |                   |   | <b>Term 2:</b>   |   |   |   |     |       |             |         |              |    |                                   |                            |  |  |
|                            | T   | 449    | 113 | Wind Technician Health and Safety                                      |     |       |             | 2         |                   | x |  | available only at Lakeshore Technical College |   |   |     |       |             |         |              | 2  |                                   |                            |  |  |
|                            | T   | 482    | 120 | Wind Technician 1 Lab  |     |       |             | 1         |                   | x |  | available only at Lakeshore Technical College |   |   |     |       |             |         |              | 1  |                                   |                            |  |  |
|                            | T   | 620    | 104 | Fluid Power 2  |     |       |             | 3         |                   | x |  | waived for completers of 620-110 and 620-111  |   |   |     |       |             |         |              |    |                                   |                            |  |  |
|                            | T   | 620    | 120 | Basic Tools and Measurement  |     |       |             | 1         |                   | x |  | 620   | 110   | *Integrated Manufacturing Planning - Mechatronics   |     |       | 0           | 4       |              | 72 | 2                                 | Fall/Term 3                | 620-103 Semiconductor Devices; Completion of or concurrent enrollment in 620-104 Digital Electronics |  |
|                            | T   | 620    | 122 | Practical Wiring Applications Programmable Controllers - Allen Bradley |     |       |             | 1         |                   | x |  | 620   | 111   | *Integrated Manufacturing Production - Mechatronics |     |       | 0           | 4       |              | 72 | 2                                 | Spring/Term 4              | 620-110 Integrated Manufacturing Planning - Mechatronics   |  |
|                            | T   | 620    | 138 | Allen Bradley  |     |       |             | 3         |                   | x |  | 620   | 135   | Basic PLC   |     |       | 2           | 2       |              | 72 | 3                                 | Fall/Term 3                |  |  |
|                            | T   | 660    | 110 | AC Fundamentals  |     |       |             | 3         |                   | x |  | 620   | 102   | AC Circuits   |     |       | 2           | 2       |              | 72 | 3                                 | Fall/Term 1<br>2nd 8 Weeks | Completion of or concurrent enrollment in 620-101 DC Circuits  |  |
|                            | G   | 801    | 195 | Written Communication (or)   |     |       |             | 3         |                   |   |  | 801   | 136   | English Composition 1 (or)                          |     |       | 3           |         |              | 54 | 3                                 | Every Semester             |  |  |
|                            | G   | 801    | 197 | Technical Reporting  |     |       |             |           |                   |   |  | 801   | 197   | Technical Reporting                                 |     |       |             |         |              |    |                                   |                            | Every Semester   |  |
| Total 2nd Term Credits     |     |        |     |  |     |       |             | <b>17</b> |                   |   |  |   |   |   |     |       |             |         |              |    |                                   |                            |  |  |
| <b>Summer</b>              |     |        |     |  |     |       |             |           |                   |   | <b>Summer</b>  |   |   |   |     |       |             |         |              |    |                                   |                            |  |  |
|                            | T   | 482    | 103 | Wind Farm Internship (or)  |     |       |             | 2         |                   | x |  | available only at Lakeshore Technical College |   |   |     |       |             |         |              |    |                                   |                            |  |  |
|                            | T   | 482    | 132 | Small Turbine Maintenance/Site Assessment                              |     |       |             | 2         |                   | x | x  | available only at Lakeshore Technical College |   |   |     |       |             |         |              |    |                                   |                            | credits in term 4 of Lakeshore   |  |
| Total Summer Term Credits  |     |        |     |  |     |       |             | <b>2</b>  |                   |   |  |   |   |   |     |       |             |         |              |    |                                   |                            |  |  |

| ✓                            | T/G | Course |     | Hours / Week  |     |       | Total | Credits   | Typically |     | Course |   | Hours / Week  |              |   | Total | Credits | Offered at     | Prerequisites and/or Corequisites   |  |
|------------------------------|-----|--------|-----|---|-----|-------|-------|-----------|-----------|-----|--------|---|---|--------------|---|-------|---------|----------------|---|--|
|                              |     | Subj   | Num | Lec   | Lab | Other |       |           | Subj      | Num | Lec    | Lab   | Other   | Moraine Park |   |       |         |                |   |  |
| <b>Term 3</b>                |     |        |     |   |     |       |       |           |           |     |        |   |   |              |   |       |         |                |   |  |
|                              | T   | 482    | 122 | Wind Technician 2   |     |       |       | 1         | x         |     |        | available only at Lakeshore Technical College |   |              |   |       |         |                |   |  |
|                              | T   | 482    | 124 | Wind Technician 3   |     |       |       | 1         | x         |     |        | available only at Lakeshore Technical College |   |              |   |       |         |                |   |  |
|                              | T   | 620    | 130 | Introduction to Mechanisms Mechanics                            |     |       |       | 3         | x         |     | 606    | 116   | Machine Elements                                    | 3            |   | 54    | 3       | Spring         | Completion of or concurrent enrollment in 804-116 College Technical Mathematics 2 (Wind Energy students will need approval from instructor) |  |
|                              | T   | 620    | 141 | Industrial Controls and Motors                                  |     |       |       | 3         | x         |     | 620    | 133   | Data Acquisition Control                            | 2            | 2 | 72    | 3       | Fall/Term 3    | 620-115 AC/DC Machinery; Completion of or concurrent enrollment in 620-104 Digital Electronics  |  |
|                              | T   | 620    | 164 | Electromechanical Systems                                       |     |       |       | 3         | x         |     | 620    | 151   | Robotics  | 2            | 2 | 72    | 3       | Spring/Term 4  | 620-133 Data Acquisition Control; 806-137 Comprehensive Technical Physics   |  |
|                              | G   | 103    | 115 | Excel 2010 - Level 1  |     |       |       | 1         | x         |     | 103    | 159   | Computer Literacy-Microsoft Office                  |              | 2 | 36    | 1       | Every Semester |   |  |
|                              | G   | 806    | 154 | General Physics 1   |     |       |       | 4         | x         |     | 806    | 137   | Comprehensive Technical Physics                     | 3            | 2 | 90    | 4       | Fall/Spring    | 804-114 College Technical Mathematics 1B  |  |
| Total 3rd Term Credits       |     |        |     |   |     |       |       | <b>16</b> |           |     |        |   |   |              |   |       |         |                |   |  |
| <b>January</b>               |     |        |     |   |     |       |       |           |           |     |        |   |   |              |   |       |         |                |   |  |
|                              | T   | 442    | 109 | Wind Turbine Structural Weld Inspection                         |     |       |       | 1         | January   |     |        | available only at Lakeshore Technical College |   |              |   |       |         |                |   |  |
| <b>Term 4</b>                |     |        |     |   |     |       |       |           |           |     |        |   |   |              |   |       |         |                |   |  |
| <b>Apply for Graduation</b>  |     |        |     |   |     |       |       |           |           |     |        |   |   |              |   |       |         |                |   |  |
|                              | T   | 482    | 126 | Wind Technician 4   |     |       |       | 3         | x         |     |        | available only at Lakeshore Technical College |   |              |   |       |         |                |   |  |
|                              | T   | 482    | 128 | Wind Technician 5   |     |       |       | 2         | x         |     |        | available only at Lakeshore Technical College |   |              |   |       |         |                |   |  |
|                              | T   | 620    | 139 | PLC Practical Applications                                      |     |       |       | 2         | x         |     | 620    | 136   | Advanced PLC  | 2            | 2 | 72    | 3       | Spring/Term 4  | 620-135 Basic PLC   |  |
|                              | T   | 620    | 192 | Industrial Codes Troubleshooting and Frequency Drive Procedures |     |       |       | 3         | x         |     | 620    | 115   | AC-DC Machinery                                     | 2            | 4 | 108   | 4       | Spring/Term 2  | 620-102 AC Circuits   |  |
|                              | G   | 809    | 112 | Principles of Sustainability                                    |     |       |       | 3         | x         |     | 809    | 166   | Introduction to Ethics: Theory and Application (or) | 3            |   | 54    | 3       | Every Semester | 801-136 English Composition 1   |  |
|                              | G   | 801    | 196 | Oral and Interpersonal Communication                            |     |       |       | 3         | x         |     | 809    | 197   | Contemporary American Society                       |              |   |       |         |                |   |  |
|                              | G   | 801    | 196 | Oral and Interpersonal Communication                            |     |       |       | 3         | x         |     | 801    | 196   | Oral and Interpersonal Communication                | 3            |   | 54    | 3       | Every Semester |   |  |
| Total 4th Term Credits       |     |        |     |   |     |       |       | <b>16</b> |           |     |        |   |   |              |   |       |         |                |   |  |
| <b>Total Program Credits</b> |     |        |     |   |     |       |       | <b>70</b> |           |     |        |   |   |              |   |       |         |                |   |  |

T/G: T - Technical Studies course; G - General Studies course  
Semester Codes: S-Summer; F-Fall; SP-Spring  
Curriculum and program acceptance requirements are subject to change.  
If Student Success Center or General College courses (ie: 831-103 Intro to College Writing, 838-104 Intro to College Reading, 834-109 Pre-Algebra) are required based on college placement; or if the student elects part-time enrollment, the time required to complete the  
For a complete list of course descriptions for this program, please consult the College Catalog at <http://www.morainepark.edu/MPTCCatalog>.