

**ENGINEERING TECHNOLOGY**

BACHELOR OF SCIENCE DEGREE – 124 Credits

UNIVERSITY OF WISCONSIN-STOUT

PROGRAM PLAN – May 2006 MECHANICAL DESIGN CONCENTRATION

Concentration Coordinator: Dr. Scott Springer, 332 FH, 715-232-2162, springers@uwstout.edu

NAME \_\_\_\_\_ DATE \_\_\_\_\_

I.D.# \_\_\_\_\_ PHONE # \_\_\_\_\_

ADVISOR \_\_\_\_\_ NEW XFER \_\_\_\_\_

<b>GENERAL EDUCATION 51 CREDITS</b>									
<b>Communication Skills (8 credits)</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>Done</b>
ENGL- 101 Freshman English – Comp. 3 <b>or</b>									
ENGL- 111 Freshman English – Honors I 3									
ENGL- 102 Freshman English – Read & Writing 3 <b>or</b>									
ENGL- 112 Freshman English – Honors II 3									
SPCOM- 100 Fundamentals of Speech 2									
<b>Analytic Reasoning (6 credits)</b>									
STAT- 130 Elementary Statistics 2									
MATH- 153 Calculus 4									
<b>Health and Physical Education (2 credits)</b>									
Courses from the approved GE listing 2									
<b>Humanities and the Arts (9 credits)</b>									
Courses from three or more areas – GE listing 9									
<b>Social and Behavioral Sciences (9 credits)</b>									
ECON- 201 General Economics 3 <b>or</b>									
ECON- 210 Principles of Economics I 3									
Courses from two or more areas – GE listing 6									
<b>Natural Sciences (15 credits)</b>									
CHEM- 135 College Chemistry 5									
PHYS- 241 College Physics I 5									
PHYS- 242 College Physics II 5									
<b>Technology (2 credits)</b>									
Course from the Technology area – GE listing 2									
<b>Professional Studies (23 credits)</b>									
RD- 100 Introduction to Engineering Technology 1									
RC- 381 Occupational Safety/Loss Control 2									
INMGT- 200 Production Operations Mgmt 3									
INMGT- 400 Organizational Leadership 3									
BUACT- 200 Financial-Managerial Accounting 2									
BUMKG-330 Principles of Marketing 3									
ENGL- 415 Technical Writing 3									
MFGT- 150 Introduction to Engineering Materials 3									
RD- 205 Design for Industry 3									
<b>Concentration Studies (50 credits)</b>									
Concentration and Program details on reverse side									
<b>TOTALS 124</b>	<b>14</b>	<b>16</b>	<b>16</b>	<b>17</b>	<b>16</b>	<b>15</b>	<b>16</b>	<b>14</b>	<b>124</b>

<b>ENGINEERING TECHNOLOGY MECHANICAL DESIGN CONCENTRATION</b>									
<b>MECHANICAL DESIGN 50 CREDITS</b>	<b>Eight semester sequence</b>								
<b>Core Requirements (44 credits)</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>done</b>
CADD- 112 Principles of Engineering Drawing I 3									
MFGT- 251 Polymer & Composite Processes 3									
MFGT- 252 Material Removal and Forming Processes 3									
MFGT- 253 Joining and Casting Processes 3									
ELEC- 204 Electric Circuits 3									
ELEC- 341 Elect. & Mech Interface Devices 3									
POWER- 260 Intro to Fluid Power 2									
MECH - 290 Mechanics of Solids I 3									
MECH- 291 Mechanics of Solids II 3									
CADD- 113 Princ of Eng Drawing II 2									
CADD- 436 Comp Assist Design Prob 3									
MECH- 332 Mechanical Design 4									
MECH- 337 Mech Design Practicum 3									
MECH- 393 Mechanics of Machinery II 3									
RD- 320 Prototype Development 3 <b>or</b> RD- 420 R & D and RD- 421 R & D Lab 3 <b>or</b> MECH 437 Mechanical Design Lab 3									
<b>Core Selectives (6 credits)</b>									
<b>TOTAL 50 Credits</b>									

<b>Core Selective Listing - choose 6 credits</b>
PKG- 150 Packaging Fundamentals 2
PKG- 335 Packaging Machinery 3
MFGT- 303 Computer Aided Mfg. 3
MFGT- 405 Industrial Robotics 3
CADD- 212 Descriptive Geometry 3
CADD- 466 3-D Computer Modeling 3
ELEC- 348 Motors & Generators 2
POWER- 303 Mech. Power Trans 3
POWER- 361 Hydraulics 2
POWER- 362 Pneumatics 2
INMGT 300 Engineering Economy 2
INMGT 430 Employee Involvement 2
INMGT 462 Global Manufacturing Tour 3
SPCOM- xxx Advanced Speech 1-3
XXX- xxx Co-op/Field Experience 1-3
XXX- xxx By Advisor Approval 1-4

**Student Organizations**

- Society of Automotive Engineers
- American Society of Mechanical Engineers
- Society of Manufacturing Engineers
- Society of Women Engineers

<b>Advisor Notes: T = Transfer W = Waived S = Substitute</b>

- The Engineering Technology Program requires 124 credits to graduate, and an overall GPA of 2.50
- All Engineering Technology students are required to satisfy University wide ethnic studies and global perspective requirements.
- Review the General Education approved listing for GE electives and Ethnic Studies and Global Perspective courses.
- Use program assistance – adviser, program director. The student is ultimately responsible for program schedule and completion.
- **Co-op/Field Experience is strongly recommended and will significantly improve employment opportunities.**

<b>Signature:</b>	<b>Date:</b>
<b>Student</b>	
<b>Advisor</b>	
<b>Program Director</b>	
<b>Associate Dean</b>	