

# B.S. in Engineering Technology

# BSU Dept. of Technological Studies

Revised 03/19/09

Name \_\_\_\_\_

Student BSU ID# \_\_\_\_\_

Email \_\_\_\_\_

Phone \_\_\_\_\_

**Liberal Education:**  
**42 Credits Minimum**  
 (2 Courses, 6 Credits)

	Sem	GD	CR
ENGL1101 College Writing I			3
ENGL 2150 or ENGL3155			3

**2. Critical Thinking**  
 (No credits required. Fulfilled when all  
 all other areas are completed)

**3. Natural Sciences**  
 (2 Courses, 7 Credits - 1 lab min)

	Sem	GD	CR
CHEM 1211* Principles of Chemistry I			4
PHYS 2101* Physics I			4

**4. Math/Symbolic Systems**  
 (1 Course, 3 Credits)

	Sem	GD	CR
MATH 2471* Calculus I			5

**5. History, Soc. & Behavioral Sci.**  
 (2 Courses, 6 Credits)

	Sem	GD	CR

**6. Humanities, Arts, Lit., Phil**  
 (2 Courses, 5 Credits)

	Sem	GD	CR

**7. Human Diversity**  
 (1 Course, 2 Credits)

	Sem	GD	CR

**8. Global Perspective**  
 (1 Course, 3 Credits)

	Sem	GD	CR

**9. Ethical and Civic Responsibility**  
 (1 Course, 2 Credits)

	Sem	GD	CR

**10. People and the Environment**  
 (1 Course, 3 Credits)

	Sem	GD	CR

**11. Performance & Participation**  
 (1 Course, 1 Credit )

	Sem	GD	CR

**Engineering Technology Foundations**

	Sem	GD	CR
MATH 2471 Calculus I			5
MATH 2472 Calculus II			5
STAT 2610 Applied Statistics			4
PHYS 2101 Physics I			5
PHYS 2102 Physics II			5
PHYS 2500 Electronics I			4
CHEM 1211 Principles of Chemistry I			4
<b>Total</b>			

**Engineering Technology Core**

	Sem	GD	CR
<i>IT1460 Technical Graphics</i>			3
<i>IT2110 Manufacturing Materials and Proc</i>			3
<i>IT2608 Computer Controlled Machining</i>			3
<i>IT3217 Material Science and Metallurgy</i>			3
<i>IT3267 Engineering Economic &amp; Cost Analysis</i>			3
<i>IT3330 Industrial Automation</i>			3
<i>IT3460 Parametric 3D Modeling</i>			3
<i>IT3700 Production Planning &amp; Control</i>			3
<i>IT3879 Performance Measurement</i>			3
<i>IT4877 Industrial Maintenance and Safety</i>			3
<i>IT4878 Quality Assurance</i>			3
<i>IT4880 Total Quality Management</i>			3
			3
PHYS2210 Statics and Strength of Materials			3
PHYS2220 Dynamics			3
PHYS3400 Mathematical Methods for Engineers			3
<b>Total</b>			

**Engineering Technology Professional**

Take IT4820, Engineering Case Study, and 12 additional credits from the following list:

	Sem	GD	CR
ENGL 2150 Tech. Writing or ENGL3155			3
<i>IT3310 Fluid Power</i>			3
<i>IT3897 Ergonomics and Human Factors</i>			3
<i>IT4370 Computer Integrated Manufacturing</i>			3
<i>IT4464 Machine Element Design</i>			3
<i>IT4465 Mech. Analysis of Parametric 3D Models</i>			3
<i>IT4820 Engineering Case Study</i>			3
<i>IT4879 Service Process Design &amp; Improvement</i>			3
<i>IT4898 Simulation of Industrial Processes</i>			3
<i>IT4899 Design of Experiments</i>			3
PHYS 3300 Thermodynamics and Heat Transfer			3
<b>Total</b>			

\*A student may opt to take other courses to fulfill this requirement, understanding that this will add additional credit hours to his or her studies