

# B.S. in MANUFACTURING ENGINEERING

## Suggested Four Year Program Plan – August 2004

(To be used in conjunction with August 2004 Program Flowchart and Plan Sheet)

Total Program Credits: 132

Accredited by the Engineering Accreditation Commission of the  
Accreditation Board for Engineering and Technology  
111 Market Place, Suite 1050, Baltimore, MD 21202-4012, 410/347-7700

### FIRST YEAR

<i>Fall Semester</i>			<i>Spring Semester</i>		
MFGT-150	Intro. to Engineering Materials	3	CHEM-341	Chemistry of Materials	4
CHEM-135	College Chemistry I	5	PHYS-281	University Physics I	5
MATH-153	Calculus I	4	MATH-154	Calculus II	4
ENGL-101	Freshman Composition	3	ENGL-102	Freshman Reading & Writing	3
SPCOM-100	Fundamentals of Speech	2			
	<i>Total</i>	<i>17</i>		<i>Total</i>	<i>16</i>

### SOPHOMORE YEAR

<i>Fall Semester</i>			<i>Spring Semester</i>		
MFGT-251	Polymer & Composite Processes	3	MFGT-252	Material Removal & Forming Proc.	3
MECH-293	Engineering Mechanics	3	MECH-294	Mechanics of Materials	3
PHYS-282	University Physics II	5	MFGE-275	Thermodynamics & Heat Transfer	2
STAT-330	Probability & Statistics	3	MATH-250	Diff. Equations & Linear Algebra	3
CADD-112	Engineering Drawing I	3	INMGT-422	Quality Engineering	3
	<i>Total</i>	<i>17</i>	CADD-436	CAD Problems (Solid Modeling)	3
				<i>Total</i>	<i>17</i>

### JUNIOR YEAR

<i>Fall Semester</i>			<i>Spring Semester</i>		
MFGT-253	Casting & Joining Processes	3	MFGE-325	Computer Aided Manufacturing	3
MFGE-351	Mfg. Process Engineering I	3	MFGE-441	Design of Jigs, Fixtures & Tooling	3
ELEC-290	Circuits & Devices	4	MFGE-352	Mfg. Process Engineering II	3
INMGT-300	Engineering Economy	2	MFGE-363	Controls & Instrumentation	4
INMGT-335	Lean Manufacturing Systems	4		<i>Humanities/Soc. Science Elec.</i>	3
	<i>Total</i>	<i>16</i>		<i>Total</i>	<i>16</i>

### SENIOR YEAR

<i>Fall Semester</i>			<i>Spring Semester</i>		
MFGE-415	Machine Vision & Robotics	2	MFGE-410	Capstone II: Mfg. Systems Design	3
MFGE-405	Capstone I: Product Design by Concurrent Engineering	3	MFGE-440	Design & Simulation of Mfg Sys	3
MFGE-391	Fluid Mechanics	2		<i>Humanities/Soc. Science Elec.</i>	3
	<i>Humanities/Soc. Science Elec.</i>	3		<i>Humanities/Soc. Science Elec.</i>	3
	<i>Humanities/Soc. Science Elec.</i>	3		<i>Humanities/Soc. Science Elec.</i>	3
	<i>Gen. Ed. Technology</i>	2		<i>Total</i>	<i>15</i>
	<i>Total</i>	<i>15</i>			

Schedule when desired:  
Physical Well Being (2cr) \_\_\_\_\_

REMEMBER – you have a one credit Professional Selective that needs to be scheduled.