

**PIEDMONT TECHNICAL COLLEGE
ASSOCIATE IN APPLIED SCIENCE
MAJOR IN MECHATRONICS TECHNOLOGY**

5 semesters

FIRST SEMESTER			<u>CLASS</u>	<u>LAB</u>	<u>CREDIT</u>
EEM	107	Industrial Computer Techniques	2.0	0.0	2.0
EEM	117	AC/DC Circuits I	2.0	6.0	4.0
IMT	102	Industrial Safety	2.0	0.0	2.0
IMT	112	Hand Tool Operations	2.0	3.0	3.0
MAT	170	Algebra, Geometry, Trigonometry I	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>
			11.0	9.0	14.0
SECOND SEMESTER					
EEM	200	Semiconductor Devices	2.0	6.0	4.0
EEM	221	DC/AC Drives	2.0	3.0	3.0
IMT	131	Hydraulics & Pneumatics	3.0	3.0	4.0
IMT	161	Mechanical Power Applications	2.0	6.0	4.0
Elective		Social/Behavioral Science	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>
			12.0	18.0	18.0
SUMMER TERM					
EEM	151	Motor Control I	3.0	3.0	4.0
EEM	231	Digital Circuits I	2.0	3.0	3.0
IMT	104	Schematics	2.0	0.0	2.0
Elective		Humanities/Fine Arts	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>
			10.0	6.0	12.0
THIRD SEMESTER					
AMT	105	Robotics and Automated Control I	2.0	3.0	3.0
EEM	162	Introduction to Process Control	2.0	3.0	3.0
EEM	251	Programmable Controllers	2.0	3.0	3.0
IMT	170	Statistical Process Control	3.0	0.0	3.0
MAT	171	Algebra, Geometry & Trigonometry II	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>
			12.0	9.0	15.0
FOURTH SEMESTER					
AMT	205	Robotics and Automated Controls II	2.0	3.0	3.0
EEM	252	Programmable Controller Applications	2.0	3.0	3.0
EEM	271	Sensors and System Interfacing	1.0	3.0	2.0
EEM	274	Technical/System Troubleshooting	2.0	6.0	4.0
ENG	165	Professional Communications	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>
			10.0	15.0	15.0
TOTAL CREDIT HOURS			55.0	57.0	74.0