

# MILLERSVILLE UNIVERSITY

Student Name: \_\_\_\_\_ Student I.D.# \_\_\_\_\_

DEGREE: AT	<b>MAJOR REQUIREMENTS FOR AN ASSOCIATE OF TECHNOLOGY DEGREE IN APPLIED ENGINEERING &amp; TECHNOLOGY: Control Systems Technology</b>
MAJOR: AETE	
OPTION: CSYS	
Total credit hours required: 60.0 minimum	

## REQUIREMENTS AND POLICIES FOR THE AT APPLIED ENGINEERING & TECHNOLOGY MAJOR

### A. Policies for Admission to the Major

1. New students (freshmen and transfers) must be admitted to the Applied Engineering & Technology major by the Office of Admissions upon admission to the University.
2. Admission into the Applied Engineering & Technology major from other departments is upon approval of the chairperson of the Applied Engineering, Safety and Technology Department.
3. Non-degree and continuing education students must be admitted to the Applied Engineering & Technology major by the Office of Admissions.
4. A.T. students may change their major to a bachelor's degree program upon the completion of 12 credit hours and a required QPA of 2.0 or higher.

### B. Policies for Retention in the Major

1. University requirements for retention.

### C. Policies for Completion of the Major

1. Completion of all University curricular requirements.
2. Either English 312 or 316 satisfies the upper-level writing course requirement under the General Education Curriculum.

**Note to the student:** *This form is provided as a guide. It is your responsibility to consult regularly with your adviser to be aware of changes and curriculum details which are not incorporated on this form.*

## MAJOR SEQUENCE AND DEGREE REQUIREMENTS

Major: **AT APPLIED ENGINEERING & TECHNOLOGY**  
 Option: **Control Systems Technology**  
 Major Field Requirements: **30.0 credits**  
 Other Requirements: **30.0 credits**

When applicable, up to six of the **REQUIRED RELATED** courses may be credited toward the Liberal Arts Core subject to normal distribution rules.

Course No.	Short Title	C.H.	Grade	Course No.	Short Title	C.H.	Grade				
<b>DEPARTMENTAL REQUIREMENTS</b>				<b>GENERAL EDUCATION REQUIREMENTS</b>							
<b>Required Core Courses (30.0 credits)</b>				<b>General and Required Related Courses (27.0 credits)</b>							
ITEC	130 Production Materials & Processes	3.0	_____	<b>G1 Humanities &amp; Fine Arts (6.0 credits)</b>							
ITEC	241 Drafting Communications	3.0	_____	Select two G1 approved courses from the following ART, COMM/THEA, ENGL, FORL/HUMN, PHIL, MUSI							
ITEC	261 Electronic Systems	3.0	_____	_____	_____	3.0	_____				
ITEC	262 Semiconductor Electronics	3.0	_____	_____	_____	3.0	_____				
ITEC	325 Power Conversion & Control	3.0	_____	<b>G2 Science &amp; Mathematics (6.0 credits)</b>							
ITEC	326 Fluid Power	3.0	_____	Required Related courses in Science & Mathematics fulfill this General Education block. Please choose one from each of the following two groups (Sciences and MATH):							
ITEC	342 Computer-aided Engineer Draw	3.0	_____	CHEM 101	Chem! Better Things/Better Living	3.0	_____				
OSEH	120 Safety, Health & Environ. Issues	3.0	_____	CHEM 103	General, Organic & Biochem I	3.0	_____				
<p><b>Select two courses from the following:</b></p> <p>ITEC 300 Internship 3.0 _____</p> <p>ITEC 364 Digital Electronics 3.0 _____</p> <p>ITEC 425 Industrial Robotic Systems 3.0 _____</p> <p>ITEC 427 Programmable Logic Controllers 3.0 _____</p> <p>ITEC 466 Wireless Communication Systems 3.0 _____</p> <p>ITEC 467 Mobile Robotic Systems 3.0 _____</p>				CHEM 205	Molecular Basis of Color & Form	3.0	_____				
				PHYS 103	Elements of Physics	4.0	_____				
				PHYS 104	Applied Physics	4.0	_____				
				MATH 151	Calculus for Mgmt, Life and SS	4.0	_____				
				MATH 160	Precalculus	4.0	_____				
				MATH 161	Calculus I	4.0	_____				
				<p><b>NOTE: Many courses have prerequisites. Please consult University Catalog or advisor.</b></p>				<b>G3 Social Sciences (6.0 credits)</b>			
								Select two G3 approved courses from the following AFAM, ANTH, BUAD, ECON, EHEM, ENTR, GEOG, GOVT, HIST, INTL, PSYC, SOCY, SOWK/GERT, WSTU			
								_____	_____	3.0	_____
								_____	_____	3.0	_____
<b>Foundations and Advanced Writing (9.0 credits)</b>											
COMM 100	Fundamentals of Speech*	3.0	_____								
ENGL 110	English Composition*	3.0	_____								
* C- or better required											
Choose one of the following Advanced Writing courses:											
ENGL 312	Technical Writing	3.0	_____								
ENGL 316	Business Writing	3.0	_____								
<b>General Electives (as necessary)</b>											
_____	_____	_____	_____								
_____	_____	_____	_____								