B.A.S. Cyber Physical Systems Engineering Technology

Program Admissions Requirements

Co	de Title	Credits
Co	mplete one of the following ESTEC AAS programs	38
	Energy Systems Instrumentation Engineering Technology	
	Energy Systems Electrical Engineering Technology	
	Energy Systems Mechanical Engineering Technology	
	Energy Systems Nuclear Operations Technology	
	Industrial Cybersecurity Engineering Technology	
To	38	

General Education

The listing below includes program requirements that also fulfill General Education requirements.

Code	Title	Credits	
Objective 1		6	
Objective 2		3	
Objective 3 - MGT	2216	3	
Objective 4		6	
Objective 5 - CHEM 1100, CHEM 1111 & CHEM 1111L, CHEM 1112 & CHEM 1112L, PHYS 1100, PHYS 1101 & PHYS 1101L, PHYS 1111 & PHYS 1113, PHYS 1112 & PHYS 1114 and any other Objective 5 course			
Objective 6 - ECO	N 2201 Recommended	6	
Students must fulfill Objective 7 or Objective 8			
Objective 7 - CS	S 1181		
Objective 8- INI	FO 1101		
Objective 9		3	
Total Credits		37-38	

Major Requirements

Code

INFO 1101

Business Statistics	3
rse and one of the following:	7-8
Concepts of Chemistry	
General Chemistry I	
and General Chemistry I Lab	
General Chemistry II	
and General Chemistry II Lab	
Essentials of Physics	
Elements of Physics	
and Elements of Physics Laboratory	
General Physics I	
and General Physics I Laboratory	
General Physics II	
and General Physics II Laboratory	
Objective 7 or 8 Courses:	3
	Concepts of Chemistry General Chemistry I and General Chemistry II Lab General Chemistry II and General Chemistry II and General Chemistry II and General Chemistry II Lab Essentials of Physics Elements of Physics and Elements of Physics Laboratory General Physics I and General Physics II and General Physics II

Digital Information Literacy

Title

Total Credits		58-59
MGT 4482	Project Management	3
MGT 3329	Operations and Supply Chain Management	3
MGT 3312	Individual and Organizational Behavior	3
MGT 2217	Applied Business Statistics	3
ENGL 3307	Professional and Technical Writing	3
INFO 4411	Intermediate Information Assurance	3
BA 3316	Introduction to Data Analytics	3
or ESET 4497	Internship	
CYBR 4489	Capstone in Industrial Cybersecurity	3
CYBR 4487	Professional Development and Certification	3
CYBR 4486	Network Security for Industrial Environments	3
CYBR 4481	Defending Critical Infrastructure and Cyber Physical Systems	3
CYBR 3384	Risk Management for Cyber-Physical Systems	3
CYBR 3383	Security Design for Cyber-Physical Systems	3
ESET 2282	Introduction to Networking	3
ESET 1181	Introduction to Cyber-Physical Systems	3
CS 1181	Computer Science and Programming I	

Degree Totals

Credits

Code	Title	Credits		
Program Admission Requirem	38			
General Education	37-38			
Major Requirements (Require	45			
Upper Division Free Electives				
Free Electives				
Total Credits		120-121		

ISU Degree Requirements (https://coursecat.isu.edu/undergraduate/degreerequirements/)

ISU General Education (https://coursecat.isu.edu/undergraduate/academicinformation/generaleducation/)

Major Academic Plan (MAP)