

BSET Occupational Safety Engineering Technology Checksheet

Name: _____
 Student ID: _____

A.S. A.A.S.

Revised: _____
 Catalog Date: 2025-26

Lower-Level Courses

	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments
Freshman Fall		MATH 1103	Precalculus Mathematics for Science and Engineering*	3		MATH 1100 or 1101	
		BIOL 1110	Principles of Biology I	3			
		ETFS 2124	Intro to Fire Prevention	3			
		WRDS 1103	Writing and Inquiry in Academic Contexts I and II*	3			
		ETGR 2230	Occupational Safety	3			
		Total:			15		
Freshman Spring		ETFS 1201	Introduction to Fire Safety and Occupational Safety	2			
		STAT 122X	Statistics* (STAT 1220 recommended)	3		MATH 1100	
		CHEM 1251	General Chemistry I*	3		MATH 1100 or MATH1103	
		CHEM 1251L	General Chemistry I Lab*	1		CHEM 1251	
		PSYC 1101	General Psychology*	3			
		CMET 1680	Professional Dvlpment I: Construction Safety	1			
		XXXX 1501	Global Theme (Social Science)	3			
		Total:			16		

	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments
Sophomore Fall		ETFS 2230	Hazardous Materials	3			
		EEM 2101	Circuit Fundamentals*	3		MATH 1103	
		BIOL 2273	Human Anatomy & Physiology (or EXER 2168)	3		BIOL110*or 2120*-CHEM 1203* or CHEM 1251*	
		PHYS 1101	Introductory Physics 1*	3		MATH 1100 or MATH1103	
		PHYS 1101L	Introductory Physics I Lab*	1		PHYS 1101	
		XXXX 1511/1512	Local Theme (Social Science, Arts or Humanities)	3			
	Total:			16			
Sophomore Spring		ETGR 1103	Technical Drawing I	3			
		ETFS 3123	Industrial Hazards and Electricity	3			
		ESCI 1101	Earth Sciences-Geography	3			
		ESCI 1101L	Earth Sciences-Geography Lab	1		ESCI 1101	
		PSYC 2320	Intro to Ind/Org Psychology	3		PSYC 1101*	
		XXXX 1502	Global Theme (Arts / Humanities)	3			
	Total:			16			

Upper-Level Courses

	SEM & YR	Course #	Course Title	Hrs	Grade	Prerequisites	Comments
Junior Fall		ETFS 3150	Adult Learning Theory in Safety	1			
		FINN 3271	Principles of Risk Management and Insurance	3		Junior or senior standing	
		ETFS 3141	Fire Safety in Constructed Facilities	3			
		ESCI 2222	Environmental Science	3		ESCI 1101 and ESCI 1501	
		ETFS 3144	Active Fire Protection	3			
		XXXX 1575	Foundations of American Democracy	3			
	Total:			16			
Junior Spring		ETGR 3222	Engineering Economics	3			
		ETFS 3103	Fire Behavior	3			
		ETFS 3103L	Fire Behavior Lab	1		ETFS 3103	
		ETGR 4303	Applied Ergonomics & Human Factors	3		ETGR 2230, MATH 1100 or higher, PHYS 1101 or higher.	Early Entry MS Students take ETGR 5303
		ETFS 3695	Fire Safety Professional Development	1			
		CTCM 2530	Critical Thinking and Communication	3		WRDS 1103/1104	
	Total:			14			
Senior Fall		ETGR 4301	Environmental Pollution Control	3		CHEM 1200 or higher, MATH 1100 or higher	Early Entry MS Students take ETGR 5301
		ETGR 4305	System Safety Design & Mgmt	3		ETGR 2230 and STAT 1220	Early Entry MS Students take ETGR 5305
		Major Elective	Directed Elective- Social Science/Health	3			CHOICES: EXER 2290, FLTH 2102, PSYC 2150, PSYC 2201, PSYC 2125
		Major Elective	Directed Elective- Environmental	3			CHOICES: CEGR 3141, LEGR 3155, ETFS 3410, ESCI 2170, ESCI 2206
		Major Elective	Restricted Elective	3			
		Total:			15		
Senior Spring		ETFS 4272	Fire & Safety Capstone	3		Senior standing & completion of all lower-level courses	
		ETGR 4302	Industrial Hygiene	3		ETGR 2230, CHEM 1200 or higher, MATH 1100 or higher, PHYS 1101 or higher.	Early Entry MS Students take ETGR 5302
		ETFS 4123	Community Threat Assessment & Mitigation	3			
		Major Elective	Restricted Elective	3			
		Total:			12		

* = grade of C or better is required for degree progression

Course in *italics* can be taken as a pre or co-requisite

