Millersville University
Dept. of Applied Engineering, Safety & Technology

120 credits minimum – Effective Fall 2019

Bachelor of Science (B.S.)

Occupational Safety & Environmental Health

DEPARTMENTAL REQUIREMENTS (61 credits)

Technica	Technical Option (45 cre		
Grade	Course No.	Title	Cr
	OSEH 120	Safety, Health & Environmental Issues	3
	OSEH 220	Legal Aspects of Safety & Hygiene	3
	OSEH 221	Fire Prevention, Protection & Control	3
	OSEH 320	Safety Engineering Principles (prereq OSEH 120)	3
	OSEH 321	Industrial Hygiene—Chemical & Biological Hazards (prereqs OSEH 120; and MATH 101 or 151 or 160 or 161; and CHEM 104)	4
	OSEH 323	Human Factors (prereq OSEH 120)	3
	OSEH 333	Intro to System Safety (preregs OSEH 320 & MATH 130)	3
	OSEH 410	OS&H Management (preregs OSEH 220 & OSEH 320)	3
	OSEH 422	Industrial Hygiene—Physical Hazards (preregs PHYS 103 or 104 or 131; and MATH 101 or 151 or 160 or 161)	4
	OSEH 430	Topics in Occupational Safety & Environmental Health	1
	OSEH 435	Environmental Health (prereq OSEH 321 or ENVI 330)	3
	OSEH 440	Internship in Industry (permission of OSEH coordinator required)	12

REQUIRED RELATED COURSES (29-30 credits)

Required Related - Math

(MATH 130 fulfills the Gen Ed Math Requirement)

Grade	Course No.	Title	Cr
		Select <u>ONE</u> of MATH 151, 160, or 161	
		• MATH 151 Calc for Management (prereq C- or higher in MATH 101 or MPT 151)	4
	MATH	MATH 160 Precalculus (prereq C- or higher in MATH 101 or MPT 160)	4
	WIZTII	MATH 161 Calculus I (prereq C- or higher in MATH 160 or MPT 161)	4
	MATH 130	Elements of Statistics (prereq: See Web Schedule or Undergrad Catalog)	3

Required Related - Biology & Chemistry

(Fulfills the G2 Science Requirements)

Grade	Course No.	Title	Cr
	BIOL 100	General Biology — or a higher-level BIOL	3
	CHEM 103	General, Organic, Biochem I	3
	CHEM 104	General, Organic, Biochem II	3

Required Related - Physics & ITEC

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Course	No.	Title	Cr
ITEC	130	Production Materials & Processes	3
ITEC	392	Industrial Training (W)	3
		Complete either Option A or Option B:	
		Option A PHYS 131 and PHYS 132	4
		— OR —	
		Option B	
			4
		• ITEC 120	3
	ITEC		ITEC 130 Production Materials & Processes ITEC 392 Industrial Training (W) Complete either Option A or Option B: Option A PHYS 131 and PHYS 132 Option B Option B One PHYS 103 or 104 or 131 and

GENERAL EDUCATION REQUIREMENTS (48 credits) Note: 12 credits of Gen Ed are fulfilled by Required Related Courses

V 1 110	No more than 2 co	IE ARTS [ART, COMM/THEATRE, ENGL, FOR purses from the same dept are permitted; all three	EIGN LANG/HUMN, MUSI, I e courses could be from diffe		edits)
Grade	Course No.	Title			Cr
					3
					3
					3
2 - SCI	IENCE & MATH	— These credits are fulfilled by Requi	red Related Math & Sc	cience (9 cr	edits)
3 - SO		[AFAM, ANTH, BUAD, GEOG, GOVT, HIST, INTI ourses from the same dept are permitted; all three			edits)
Grade	Course No.	Title	7 77	,	Cr
					3
					3
					3
ddition	al General Educa	tion Requirements		(18 cr	edits)
Grade	Course No.	Title			Cr
	COMM 100	Fundamentals of Speech (minimum o	f "C-" required)		3
	ENGL 110	English Composition (minimum of "C	C-" required)		3
x	x	Math course (fulfilled by Required Related Math)			3
	WELL 175	Wellness		3	
		Perspectives [P] (NOTE: ITEC 301	3		
		UNIV 103 or Open Elective (Open E	Elective cannot be a course fi	om major dept)	3
Advance	ed Writing (AW)	Course		(3 cr	edits)
Grade	Course No.	Title			Cr
	ENGL	Select <u>ONE</u> from: • ENGL 312 Technical Writing • ENGL 316 Business Writing	ENGL 318 Web WrENGL 319 Science V	iting Vriting	3
)ENERA	L EDUCATION RE	EQUIREMENTS CHECKLIST:			<u> </u>
Гhree G	1, G2, or G3 cou	arses at 200-LEVEL OR HIGHER:	(1)(2)	(3)
Three WRITING [W] courses (does not include ENGL 312/316): (1)(2)					(3) <u>ITEC 392</u> <u>□</u> com
One CU	LTURAL DIVE	RSITY [D] course:	(1)		
free eli	ECTIVES (6-7 cr	edits) – needed to bring overall total to 120	0 credits; depends on cred		e & math courses sele