

## OSHE Courses (in Red Color) that Satisfy Competencies for OSH&E BS Program

<b>Mathematics, Science and Statistics</b>	OSHE Courses
Graduates demonstrate how to apply mathematical and statistical knowledge in the safety, health, and environment field.	<b>111</b> , 112, <b>121</b> , <b>141</b> , 231, <b>242</b> , 251, <b>261</b> , 311, 322, 323, 341, <b>381</b> , 382, <b>421</b> , 423, <b>424</b> , <b>441</b> , 442, 451, 452, 471
Graduates demonstrate knowledge of principles in chemistry, physics, and biology as it pertains to the practice of safety, health, and environment.	<b>111</b> , <b>112</b> , 121, <b>141</b> , 231, <b>242</b> , 251, <b>261</b> , 311, 322, 323, 341, <b>381</b> , <b>382</b> , 421, 423, <b>424</b> , <b>441</b> , <b>442</b> , 451, <b>452</b> , 471
Graduates demonstrate knowledge of principles in business management as it pertains to the practice of safety, health, and environment.	<b>111</b> , <b>112</b> , <b>121</b> , 141, <b>231</b> , 242, 251, 261, <b>311</b> , 322, 323, 341, 381, 382, <b>421</b> , <b>423</b> , 424, 441, 442, 451, <b>452</b> , <b>471</b>
<b>Communications and Social Sciences</b>	
Graduates are able to effectively express thoughts in oral and written communications.	<b>111</b> , <b>112</b> , <b>121</b> , <b>141</b> , <b>231</b> , <b>242</b> , <b>251</b> , 261, 311, <b>322</b> , 323, 341, <b>381</b> , <b>382</b> , <b>421</b> , <b>423</b> , <b>424</b> , 441, 442, 451, 452, <b>471</b>
Graduates demonstrate knowledge of the techniques, skills, and modern behavioral tools necessary for the practice of safety, health, and environment.	<b>111</b> , <b>112</b> , <b>121</b> , 141, 231, 242, 251, 261, 311, <b>322</b> , 323, 341, 381, <b>382</b> , <b>421</b> , <b>423</b> , <b>424</b> , 441, 442, 451, 452, 471
Graduates are able to effectively function as a part of multi-disciplinary teams that establishes goals, plan tasks, meet deadlines, and analyze risk and uncertainty.	<b>111</b> , <b>112</b> , 121, 141, 231, <b>242</b> , 251, 261, 311, 322, 323, 341, 381, <b>382</b> , <b>421</b> , 423, <b>424</b> , 441, 442, <b>451</b> , 452, <b>471</b>
Graduates demonstrate knowledge of professional and ethical responsibility.	<b>111</b> , <b>112</b> , <b>121</b> , <b>141</b> , <b>231</b> , <b>242</b> , <b>251</b> , <b>261</b> , 311, <b>322</b> , 323, 341, <b>381</b> , <b>382</b> , <b>421</b> , <b>423</b> , 424, 441, 442, 451, 452, 471
Graduates demonstrate knowledge of contemporary issues.	<b>111</b> , <b>112</b> , 121, <b>141</b> , 231, <b>242</b> , 251, <b>261</b> , 311, 322, 323, <b>341</b> ,

	<b>381, 382, 421, 423, 424, 441, 442, 451, 452, 471</b>
<b>Safety, Health, and Environment Knowledge</b>	
Graduates demonstrate knowledge of occupational safety, health, and environment fundamentals.	<b>111, 112, 121, 141, 231, 242, 251, 261, 311, 322, 323, 341, 381, 382, 421, 423, 424, 441, 442, 451, 452, 471</b>
Graduates demonstrate knowledge of legal aspects of safety, health, and environmental practices.	<b>111, 112, 121, 141, 231, 242, 251, 261, 311, 322, 323, 341, 381, 382, 421, 423, 424, 441, 442, 451, 452, 471</b>
Graduates demonstrate knowledge of the interactions of physical, chemical, biological, and ergonomic agents, factors, and/or stressors on the human body.	111, 112, 121, <b>141, 231, 242, 251, 261, 311, 322, 323, 341, 381, 382, 421, 423, 424, 441, 442, 451, 452, 471</b>
Graduates demonstrate knowledge of the application of laws, regulations, standards, and codes to safety, health and environmental conditions.	<b>111, 112, 121, 141, 231, 242, 251, 261, 311, 322, 323, 341, 381, 382, 421, 423, 424, 441, 442, 451, 452, 471</b>
Graduates demonstrate knowledge of and use principles of fire prevention and protection in the workplace.	<b>111, 112, 121, 141, 231, 242, 251, 261, 311, 322, 323, 341, 381, 382, 421, 423, 424, 441, 442, 451, 452, 471</b>
Graduates demonstrate knowledge of industrial and construction safety throughout the work processes.	<b>111, 112, 121, 141, 231, 242, 251, 261, 311, 322, 323, 341, 381, 382, 421, 423, 424, 441, 442, 451, 452, 471</b>
<b>Safety, Health, and Environment Practical Skills</b>	
Students demonstrate how to utilize basic laboratory instrumentations associated with safety, health, and environment to develop and conduct experiments or test hypotheses, analyze and interpret data and use scientific judgment to draw conclusions.	111, 112, 121, 141, 231, 242, 251, 261, 311, 322, 323, <b>341, 381, 382, 421, 423, 424, 441, 442, 451, 452, 471</b>
Graduates demonstrate how to anticipate, identify and evaluate hazardous agents, conditions, and practices.	<b>111, 112, 121, 141, 231, 242, 251, 261, 311, 322, 323, 341,</b>

	<b>381, 382</b> , 421, 423, <b>424, 441, 442</b> , 451, 452, 471
Students demonstrate knowledge and skills of fundamental exposure assessment and environmental sampling techniques.	<b>111, 112</b> , 121, <b>141</b> , 231, <b>242</b> , 251, 261, 311, 322, 323, <b>341</b> , <b>381, 382</b> , 421, 423, <b>424, 441, 442, 451</b> , <b>452</b> , 471
Students demonstrate how to develop control designs, methods, procedures, and programs to eliminate or mitigate safety, health, and environmental hazards.	111, <b>112</b> , 121, <b>141</b> , 231, <b>242</b> , 251, <b>261</b> , 311, 322, 323, <b>341</b> , <b>381</b> , 382, 421, 423, <b>424</b> , 441, <b>442, 451</b> , <b>452</b> , 471
Graduates demonstrate how to conduct accident/incident investigation and analysis.	<b>111</b> , 112, <b>121</b> , 141, 231, 242, 251, 261, 311, 322, 323, 341, 381, 382, <b>421, 423</b> , 424, 441, 442, 451, 452, 471
Graduates demonstrate how to implement and manage effective safety, health, and environment programs.	<b>111</b> , 112, <b>121</b> , 141, 231, 242, 251, 261, <b>311, 322, 323</b> , 341, 381, 382, <b>421, 423</b> , <b>424</b> , 441, 442, 451, 452, <b>471</b>