

Associate of Science in Explosive Ordnance Disposal

The Associate of Science in Explosive Ordnance Disposal examines the historical development, science, methods, and practices of explosive ordnance detection and disposal, as well as emergency responses to terrorist acts and national security. This online associate degree program offers ideal preparation for a career as an explosive ordnance disposal technician or first responder in the military, law enforcement agencies, and government contractors.

Degree Program Objectives

In addition to the institutional and degree level learning objectives, graduates of this program are expected to achieve these learning outcomes:

- Describe specific dates in relation to discovery, invention, and use of various explosives.
- Discuss the history and background of electricity and electronics as typically found in hazardous devices.
- List important scientists and inventors who played essential roles in explosives development.
- Explain the safety precautions to observe when conducting operations involving hazardous devices that incorporate energy bombs and electromagnetic pulse devices.
- Restate the principles and theories of fundamental concepts of electricity, physics, and chemistry as they apply to explosive devices.
- Interpret circuit components most commonly used in hazardous devices.
- Recognize hazardous device electronic diagrams.
- Summarize the operations and methods used during ordnance and emergency responses.
- Describe the safety precautions used when handling explosives.

Degree at a Glance

Code	Title	Semester Hours
	General Education Requirements	30
	Major Required	16
	Final Program Requirements	3
	Elective Requirements	11
	Total Semester Hours	60

Degree Program Requirements

General Education Requirements (30 semester hours)

Code	Title	Semester Hours
Arts and Humanities (6 semester hours)¹		
Select 2 courses from the following:		6
ARAB100	Arabic I	
ARAB101	Arabic II	
ARTH200	Art Appreciation	
ARTH241	Film and Literature	
DSIN141	Image Enhancement using Adobe Photoshop	
FREN100	French I	
FREN101	French II	
GERM100	German I	
GERM101	German II	
JAPN100	Introduction to Japanese	
LITR215	Literature of American Encounters, Revolution, and Rebellion	
LITR218	From Abolition to #MeToo: Literature of the American Civil Rights Movement	
LITR222	Pivotal Figures in Early British Literature	
LITR225	British Literature from Wordsworth through the Wasteland	
LITR231	Leadership in World Literature: Antiquity to the Early Modern Period	
LITR233	Literature of the Newly Globalized World: The Individual's Struggle to Adapt	
MUSI200	Music Appreciation	
MUSI250	World Music and Cultures	
PHIL101	Introduction to Philosophy	
PHIL110	Critical Thinking	
PHIL200	Introduction to Ethics	
PHIL202	Philosophy of Science	
PORT100	Introduction to Brazilian Portuguese	
RELS201	Introduction to World Religions	
RUSS100	Russian I	
SPAN100	Spanish I	
SPAN101	Spanish II	
STEM270	Thinking and Acting Ethically	
Civics, Political and Social Sciences (6 semester hours)¹		
Select 2 courses from the following:		6
ANTH100	Introduction to Anthropology	

ANTH202	Introduction to Cultural Anthropology
CHFD220	Human Sexuality
COMM211	Social Media and Society
COMM240	Intercultural Communication
ECON101	Microeconomics
ECON102	Macroeconomics
EDUC200	Humane Education: A Global Interdisciplinary Perspective
GEOG101	Introduction to Geography
HOSP110	Practical Food Safety and Awareness
IRLS210	International Relations I
LITR212	Forgotten America--Under Represented Cultures in American Literature
LITR235	Four Points of the Compass: Culture and Society Around the World
POLS101	Introduction to Political Science
POLS210	American Government I
PSYC101	Introduction to Psychology
SOCI111	Introduction to Sociology
SOCI212	Social Problems
SOCI220	American Popular Culture
STEM280	Exploring Society and Cultures via Science Fiction

Communication: Writing, Oral, and Multimedia (9 semester hours)

COMM120	Information and Digital Literacy	3
ENGL110	Making Writing Relevant	3
ENGL115	Argumentation and Rhetoric	3

History (3 semester hours)

Select 1 course from the following: 3

HIST101	American History to 1877
HIST102	American History since 1877
HIST111	World Civilization before 1650
HIST112	World Civilization since 1650
HIST121	Western Civilization before The Thirty Years War
HIST122	Western Civilization since The Thirty Years War
HIST221	African-American History before 1877
HIST222	African-American History since 1877
HIST223	History of the American Indian
HIST270	History of Science
STEM185	The History and Context of STEM

Mathematics and Applied Reasoning (3 semester hours)

Select 1 course from the following: 3

ACCT105	Accounting for Non Accounting Majors
ENTD200	Fundamentals of Programming
MATH110	College Algebra

MATH111	College Trigonometry
MATH120	Introduction to Statistics
MATH125	Math for Liberal Arts Majors
MATH225	Calculus

Natural Sciences (3 semester hours)

CHEM180	Introduction to Chemistry	3
Total Semester Hours		30

¹ All literature courses require successful completion of ENGL101 - Proficiency in Writing or ENGL110 - Making Writing Relevant.

Major Required (16 semester hours)

Code	Title	Semester Hours
SCIN133	Introduction to Physics with Lab	4
HLSS230	Chemistry of Explosives	3
HLSS231	History of Explosive Ordnance Disposal	3
HLSS232	Electronics, Electricity, and Explosives	3
HLSS233	Explosive Incident Assessment: Methods, Practices, Protocols	3
Total Semester Hours		16

Final Program Requirements (3 semester hours)

Code	Title	Semester Hours
EXOD299	Sophomore Seminar in Explosive Ordnance Disposal ¹	3
Total Semester Hours		3

¹ To be taken as the last course before graduation.

Elective Requirements (11 semester hours)

Code	Title	Semester Hours
Students must complete 11 semester hours comprised of lower (100-200) level courses not taken to fulfill the requirements listed above. Additional general education courses may be taken to fulfill elective requirements.		11
Total Semester Hours		11