

State Fire/Rescue Degree Information

The information contained in this document can be used to plan your degree program. It is divided into two sections. The first discusses the program and it's justification. The second part is General Education courses that can be taken at ECC or any state college or university. Care should be taken to make sure the course you enroll in is the same course listed on this document.

II PROGRAM DESCRIPTION

2.01 CURRICULUM

The Associate of Applied Science in Fire/Rescue Science Technology is intended to serve the fire service in two ways:

1. to provide college level credentials for training being taken by existing fire service personnel; and
2. to provide a framework for college level education for those seeking to enter the fire service profession.

The curriculum for this program is driven by the Kentucky Fire Commission on Personnel Standards and Education and is based on standards and regulations provided by the National Fire Protection Association (NFPA), Occupational Safety and Health Agency (OSHA), International Fire Service Training Association (IFSTA), and Federal Department of Transportation. The Kentucky Emergency Medical Services Council and the Kentucky Emergency Response Commission affect portions of the curriculum. The Council on Occupational Education and International Fire Service Accreditation Congress will accredit the program.

The educational components of this degree may be completed within one region or at more than one regional site. This program requires 15 semester credit hours of general education, 46 semester credit hours in the technical area, and 3 semester credit hours of computer fundamentals. Many of the general education course requirements are available through distance learning and through scheduling with other colleges within the Kentucky Community and Technical College System. The framework provides for transfer of course work to four-year institutions for those students seeking to further their education.

Sample sequence:

First Year: Semester One

FRS 101, Intro to Fire Service, 3cr hrs
FRS 102, Firefighter Basic Skills , 3 cr hrs
CPU100/CIS 100 Computer Lit, 3 cr hrs
General Education, 6 credit hours

Semester Two

FRS 103, Firefighters Basic Skills II, 3 cr hrs
FRS 104, Firefighters Intermediate Skills I, 3 cr hrs
FRS 105, Firefighters Intermediate Skills II. 3 cr hrs
General Education, 6 credit hours

Second Year: Semester One

FRS 201, Firefighters Advanced Skills I, 3 cr hrs
FRS 202, Firefighters Advanced Skills II, 3 cr hrs
Advanced Skills III, 3 cr hrs
FRS 204, EMT First Responder, 3 cr hrs

Semester Two

FRS 205, Fire Officer I, 3 cr hrs
FRS 206, Fire Officer II, 3 cr hrs
FRS 203, Firefighters
FRS 207, Fire Officer III, 3 cr hrs
General Education, 3 credit hours

Technical Education Courses (46 Credit Hours Required)

FRS 101	Introduction to Fire Service	3 credit hours
FRS 102	Firefighter Basic Skills I	3 credit hours
FRS 103	Firefighter Basic Skills II	3 credit hours
FRS 104	Firefighter Intermediate Skills I	3 credit hours
FRS 105	Firefighter Intermediate Skills II	3 credit hours
FRS 201	Firefighter Advanced Skills I	3 credit hours
FRS 202	Firefighter Advanced Skills II	3 credit hours
FRS 203	Firefighter Advanced Skills III	3 credit hours
FRS 204	EMT First Responder	3 credit hours
FRS 205	Fire Officer I	5 credit hours
FRS 206	Fire Officer II	8 credit hours
FRS 207	Fire Officer III	6 credit hours

General Education Courses

Humanities or Oral Communications (Three credit hours from the following.)

COM 181	Basic Public Speaking	3 credit hours
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Mathematics (Three credit hours from the following.)

MT 107	Liberal Arts Math	3 credit hours
MA 109	College Algebra	3 credit hours
or		
MA 101	or any higher level mathematics course	3 credit hours

Social Interaction (Three credit hours required from the following.)

PY 110	General Psychology	3 credit hours
SOC 101	Introductory Sociology	3 credit hours

Writing/Accessing Information (Three credit hours required from the following.)

ENG 101	Writing I	3 credit hours
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Science (Three credit hours required from the following.)

AST 101	Frontiers of Astronomy	3 credit hours
AST 191	The Solar System	3 credit hours
AST 192	Galactic and Extra-Galactic Astronomy	3 credit hours
BIO 102	Human Ecology	3 credit hours
BIO 103	Basic Ideas of Biology	3 credit hours
BIO 150	Principles of Biology I	3 credit hours
BIO 151	Principles of Biology Laboratory I	2 credit hours
BIO 204	The Genetic Perspective	3 credit hours
BIO 208	Principles of Microbiology	3 credit hours

BIO 209	Introductory Microbiology Laboratory	2 credit hours
BSL 109	Aspects of Human Biology	3 credit hours
BSL 110	Human Anatomy and Physiology	4 credit hours
BSL 116	Introduction to Conservation Biology	3 credit hours
BSL 212	Medical Microbiology	4 credit hours
CHE 104	Introductory General Chemistry	3 credit hours
CHE 105	General College Chemistry I	3 credit hours
CHE 106	Intro to Inorganic, Organic, and Biochemistry	4 credit hours
CHE 107	General College Chemistry II	3 credit hours
CHE 115	General Chemistry Laboratory	3 credit hours
CHM 100	Introductory General and Biological Chemistry	4 credit hours
CHM 101	Chemistry: A Cultural Approach	3 credit hours
CHM104	Introductory General Chemistry Laboratory	1 credit hour
CHM 105	General Chemistry Laboratory I	2 credit hours
CHM 107	General Chemistry Laboratory II	2 credit hours
GLY 101	Physical Geology	3 credit hours
GLY 111	Laboratory for Physical Geology	1 credit hour
PHY 151	Introduction to Physics	3 credit hours
PHY 152	Introduction to Physics	3 credit hours
PHY 153	Laboratory for Middle School Teachers	1 credit hour
PHY 160	Physics and Astronomy for Elementary Teachers	3 credit hours
PHY 201	General Physics	4 credit hours
PHY 203	General Physics	4 credit hours
PHY 210	Special Laboratory for General Physics 201	1 credit hour
PHY 211	General Physics	5 credit hours
PHY 212	Special Laboratory for General Physics 203	1 credit hours
PHY 213	General Physics	5 credit hours
PHY 231	General University Physics	4 credit hours
PHY 232	General University Physics	4 credit hours
PHY 241	General University Physics Laboratory	1 credit hour
PHY 242	General University Physics Laboratory	1 credit hour
PH 161	Introductory Physics Laboratory I	1 credit hour
PH 162	Introductory Physics Laboratory II	1 credit hour
PH 171	Applied Physics	4 credit hours
PH 217	Applied Industrial Physics	5 credit hours

Computer Literacy Course Requirement (Three credit hours required from the following.)

CIS 100	Introduction to Computers	3 credit hours
or		
CPU 100	Computer Fundamentals	3 credit hours
Technical Education Hours Required		46 credit ours
General Education Hours Required		15 credit hours
Computer Fundamentals		3 credit hours
Total Hours		64 Credit Hours

The above course recommendations were made in consultation with the Kentucky Fire Commission, the KCTCS Fire/Rescue curriculum committee and a technical branch dean representing the academic interests of the colleges.