

FIRE SCIENCE

Associate in Applied Science, 68-72 Credit, 18-month Program

The Fire Science program prepares students for careers in the wildland and structural fire service. The combination of classroom instruction, extensive hands on training, in-the-field experience, and internships allow the student to develop skills required for successful employment in the fire service.

This program is designed to meet the specific needs of municipal and wildland firefighting agencies in the Great Plains and Black Hills regions. Completion of the program will result in a firefighter well-prepared to work on a fire in the hills or respond to a large structural fire. The successful student will achieve numerous State and National certifications.

Course No.	Course Title	Credits
General Education Requirements		
CIS 109	WORD, LEVEL I	1
CIS 112	EXCEL, LEVEL I	1
CIS 114	POWERPOINT, LEVEL I	1
ENGL 101	COMPOSITION <i>*or</i>	3
ENGL 201	TECHNICAL WRITING I	
ENGL 202	TECHNICAL COMMUNICATIONS	3
MTH 100	ELEMENARY ALGEBRA** (OR HIGHER)	3
ORT 010	ORIENTATION	1
PSYC 101	GENERAL PSYCHOLOGY <i>or</i>	3
PSYC 103	HUMAN RELATIONS IN THE WORKPLACE	
SOC 100	INTRODUCTION TO SOCIOLOGY	3
Total		19
Technical Requirements		
FFT 100	WILDLAND FIREFIGHTER I	3
FFT 102	RESCUE I	3
FFT 105	PHYSICAL EDUCATION I	2
FFT 106	STRUCTURE FIREFIGHTER	6
FFT 110	BUILDING CONSTRUCTION	3
FFT 111	FORESTRY	3
FFT 116	HAZARDOUS MATERIALS OPERATIONS	3
FFT 203	FIREFIGHTER FITNESS TESTING	1
FFT 205	STRUCTURE FIRE ORIGIN & CAUSE	2
FFT 206	WILDLAND FIRE SERVICE DRIVING <i>or</i>	1
FFT 209	EMERGENCY VEHICLE OPERATIONS (EVOC)	
FFT 210	WILDLAND FIREFIGHTER II	2
FFT 215	WILDLAND URBAN INTERFACE FIREFIGHTING	3
FFT 218	STRATEGY & TACTICS	3
FFT 222	ADVANCED WILDLAND FIREFIGHTER	3
FFT 299	INTERNSHIP	2-6
CPR 103	INTRODUCTION TO EMERGENCY MEDICAL TECHNICIAN	6
Total		46-50
Electives for all Fire Science Students		
FFT 112	PUBLIC FIRE EDUCATION	3
FFT 117	FIRE CODES & INSPECTION PROCEDURES	3
FFT 202	RESCUE II	3
FFT 204	DRIVER OPERATOR	3
FFT 207	FIRE INVESTIGATION – WILDLAND	1
FFT 212	ARFF (AIRCRAFT RESCUE FIREFIGHTING)	3
FFT 221	FIRE OFFICER I	3
FFT 223	PROTECTIVE SYSTEMS (STRUCTURE)	2
FFT 224	FIRE SERVICE INSTRUCTOR	1
FFT 227	HAZARDOUS MATERIALS TECHNICIAN	3
FFT 228	URBAN SEARCH & RESCUE (STRUCTURE COLLAPSE TRAINING)	3
FFT 229	INDUSTRY STANDARDS FIRE SCIENCE	3
FFT 231	FIRE OFFICER II	3
CAD 250	INTRODUCTION TO MAPPING/GPS	2

*Prerequisite: Acceptable COMPASS score or Basic Writing.

**Prerequisite: Acceptable COMPASS score or Basic Math.

Semester Breakdown

First Semester			Second Semester		
		CR			CR
FFT 100	Wildland Firefighter I	3	FFT 111	Forestry	3
FFT 105	Physical Education	2	FFT 206	Wildland Driver Operator <i>or</i>	1
FFT 106	Structural Firefighter	6	FFT 209	EVOC	
ORT 010	Orientation	1	FFT 210	Wildland Firefighter II	2
MTH 100	Elementary Algebra	3	CPR 103	Introduction to EMT	6
PSYC 101	General Psychology	3	CIS 109	Word, Level I	1
	Total Credit Hours	18	CIS 112	Excel, Level I	1
			CIS 114	PowerPoint, Level I	1
			ENGL 101	Composition <i>or</i>	3
			ENGL201	Technical Writing I	
				Total Credit Hours	18
Third Semester			Fourth Semester		
		CR			CR
FFT 102	Rescue I	3	FFT 110	Building Construction	3
FFT 203	Fire Fighter Fitness Testing	1	FFT 116	Hazardous Materials Operation	3
FFT 205	Structure Fire Origin & Cause	2	FFT 215	Wildland/Urban Interface	3
FFT 222	Advanced Wildland Firefighter	3	FFT 218	Strategy & Tactics	3
SOC 100	Intro to Sociology	3	FFT 299	Internship	2-6
ENGL 202	Technical Communications	3		Electives	0-4
	Electives	3		Total Credit Hours	18
	Total Credit Hours	18		(minimum of 18 credits)	