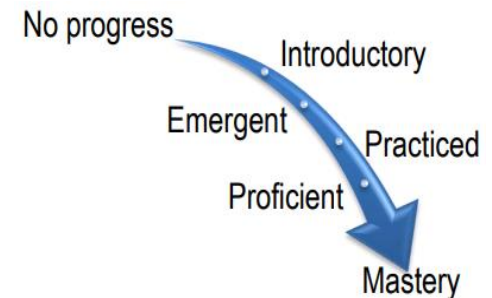




Purdue Global presents this data in compliance with the requirements of the International Fire Service Accreditation Congress (IFSAC).

## Bachelor of Science in Fire and Emergency Management

At Purdue Global, we employ a method called **Course-Level Assessment**, or CLA, to determine student mastery of Course Outcomes. Through CLA, we measure how well students gain the skills, knowledge, abilities, and behaviors that employers expect of program graduates. A series of courses prepares students for employment by providing preparation, practice, and opportunities to show mastery of these program outcomes. Each course is developed around a number of learning goals, known as course outcomes, that support a student's growing mastery of program level outcomes. Faculty members assess each student's mastery of each course outcome through Course Level Assessments.



### Program Measure for Standard of Success:

- 75% or more of students attempting the outcome will perform at the **Emergent** level or greater in **100/200** level courses
- 75% or more of students attempting the outcome will perform at the **Emergent** level or greater in **300/400** level courses

## BSFEM Program Outcome Information for 2023–2024 Academic Year

### BSFEM-1 Program Outcomes

Evaluate ethical, social, civic, cultural, and political issues as they relate to the management of emergency services, safety, and survival.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Analyze standardized response methodologies.	CJ307-3 = 89%	Yes
Examine effective resource management.	CJ307-4 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Analyze the relationships among CONPLAN, NIMS and ICS.	CJ307-5 = 96%	Yes
Discuss the historical development of emergency management including the transition to the all hazards concept.	FS120-1 = 100%	Yes
Identify fire service laws, regulations, and terminology.	FS202-1 = 100%	Yes
Describe how fire departments function as part of local government.	FS202-5 = 100%	Yes
Examine how ethics applies to fire and emergency service leadership.	FS205-3 = 100%	Yes
Describe common approaches to ethical issues faced by fire and emergency service organizations.	FS205-4 = 100%	Yes
Differentiate between the types of laws pertinent to emergency services.	FS208-1 = 100%	Yes
Discuss the aspects of criminal and civil laws that emergency services agencies are likely to encounter.	FS208-2 = 100%	Yes
Analyze the impact of recent legal decisions on emergency services agencies.	FS208-4 = 100%	Yes
Examine the role of ethics in the execution of emergency services and its influence on leadership and decision-making.	FS402-6 = 94%	Yes
Compare general human resources management issues with those common to fire and EMS agencies.	FS414-1 = 100%	Yes
Forecast the possible personnel management concerns that affect the operations of fire and EMS agencies.	FS414-2 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 100%	Yes
Analyze rules, regulations, laws, and policies that impact human resources management.	FS414-5 = 100%	Yes
Ethics: Evaluate ethical, social, civic, cultural, and political issues as they relate to the management of emergency services, safety, and survival.	FS498-1 = 100%	Yes

DNA = Data Not Available

### BSFEM-2 Program Outcomes

Global Awareness: Analyze the social, cultural, behavioral, and economic characteristics of global emergency and disaster planning.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the historical development of emergency management.	FS120-1 = 100%	Yes
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-3 = 71%	No
Discuss the state and local laws that have an effect on the management of emergency services.	FS208-3 = 100%	Yes
Explain the difference between continuity planning and emergency operation planning.	FS220-4 = 90%	Yes
Describe the role of the community in emergency response.	FS225-3 = 96%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Global Awareness: Analyze the social, cultural, behavioral, and economic characteristics of global emergency and disaster planning.	FS498-2 = 100%	Yes

### BSFEM-3 Program Outcomes

Knowledge Base: Develop a comprehensive program for operational and strategic emergency management decisions and materials management.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Describe the development of fire safety codes, inspection procedures, and enforcement.	FS105-3 = 100%	Yes
Describe the relationship between risks, hazards, and vulnerabilities in the risk assessment process.	FS120-2 = 100%	Yes
Explain the concept of mitigation in emergency management.	FS120-3 = 100%	Yes
Distinguish between the preparedness and administrative functions of the emergency management program.	FS120-4 = 91%	Yes
Identify the responsibilities of the emergency manager during the response and recovery phases of a disaster.	FS120-5 = 100%	Yes
Explain the current roles of fire protection agencies.	FS202-2 = 100%	Yes
Explain how fire protection services are organized.	FS202-3 = 71%	No

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-4 = 97%	Yes
Describe common approaches to ethical issues faced by fire and emergency service organizations.	FS205-4 = 100%	Yes
Demonstrate college-level communication through the composition of original materials in Standard American English.	FS205 GEL-1.1 = N/A	DNA
Identify the phases of a disaster.	FS225-1 = 100%	Yes
Explain the purpose of the National Response Framework.	FS225-2 = 100%	Yes
Describe the role of the community in emergency response.	FS225-3 = 96%	Yes
Compare the responsibilities of on-scene responders and the Emergency Operations Center.	FS225-4 = 100%	Yes
Describe the federal disaster assistance recovery process.	FS225-5 = 92%	Yes
Demonstrate college-level communication through the composition of original materials in Standard American English.	FS225 GEL-1.1 = N/A	DNA
Use electronic libraries/databases for research purposes.	FS225 GEL-6.5 = N/A	DNA
Analyze the components of both short and long term disaster recovery operations.	FS320-1 = 100%	Yes
Explain the procedure for requesting federal assistance.	FS320-5 = 100%	Yes
Analyze the impact of human expressions on culture.	FS320 GEL-5.2 = N/A	DNA

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Formulate effective decisions based on fire service management and leadership guidelines.	FS401-1 = 99%	Yes
Appraise fire prevention research as a part of community risk reduction and education.	FS401-3 = 100%	Yes
Apply the principles of the legal system as it pertains to the management of human resources within the realm of emergency services.	FS402-3 = 94%	Yes
Analyze rules, regulations, laws, and policies that impact human resources management.	FS414-5 = 100%	Yes
Determine the purpose of hazard mitigation in the emergency management cycle.	FS420-1 = 100%	Yes
Evaluate the government's role in hazard mitigation.	FS420-3 = 100%	Yes
Examine the types of hazards emergency managers must mitigate.	FS420-4 = 100%	Yes
Critique policy decisions made in disaster management.	FS425-2 = 100%	Yes
Analyze the process of disaster management policy writing.	FS425-3 = 100%	Yes
Fire Foundations: Demonstrate an understanding of building construction as it relates to fire fighter safety, building codes, fire prevention, code inspection, and firefighting strategy and tactics. BSFS -1	FS498-8 = 100%	Yes
Knowledge Base: Develop a comprehensive program for operational and strategic emergency management decisions and materials management.	FS498-3 = 100%	Yes

### BSFEM-4 Program Outcomes

Operations: Apply project management strategies that illustrate the design and management of disaster and fire-defense planning.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the philosophy of fire prevention as it applies to fire service organizations.	FS105-2 = 100%	Yes
Describe how the role of the fire service administration with regard to fire prevention, work municipal government.	FS105-4 = 100%	Yes
Illustrate how fire service personnel are prepared for fire prevention functions within the fire service.	FS105-5 = 100%	Yes
Identify the responsibilities of the emergency manager during the response and recovery phases of a disaster.	FS120-5 = 100%	Yes
Identify the components of a risk management and communications program.	FS220-1 = 80%	Yes
Examine the difference between the tactical and operational levels within the emergency management framework.	FS220-3 = 94%	Yes
Explain the difference between continuity planning and emergency operation planning.	FS220-4 = 90%	Yes
Compare the responsibilities of on-scene responders and the Emergency Operations Center.	FS225-4 = 100%	Yes
Develop community risk reduction objectives and determine appropriate methods to meet them.	FS304-1 = 95%	Yes
Develop effective intervention strategies given community research and involvement.	FS304-2 = 100%	Yes
Create an effective community risk reduction program.	FS304-3 = 95%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Evaluate community risk reduction programs.	FS304-4 = 98%	Yes
Compare the roles and responsibilities of local, state, and federal governments in recovery operations.	FS320-2 = 100%	Yes
Compare the roles and responsibilities of private sector individuals, organizations, and insurance providers in recovery operations.	FS320-3 = 100%	Yes
Create a disaster recovery plan.	FS320-4 = 100%	Yes
Apply the skills and actions of leadership and management.	FS403-1 = 100%	Yes
Forecast the possible personnel management concerns that affect the operations of fire and EMS agencies.	FS414-2 = 100%	Yes
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 100%	Yes
Develop a Threat and Hazard Identification and Risk Assessment (THIRA).	FS420-5 = 100%	Yes
Examine the process of implementing disaster policy.	FS425-4 = 100%	Yes
Operations: Apply project management strategies that illustrate the design and management of disaster and fire- defense planning.	FS498-4 = 100%	Yes



### BSFEM-5 Program Outcomes

Psychology: Appraise issues that deal with the psychological effects of emergency services, safety and survival.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Describe ethics and the common philosophical concepts of ethics.	FS205-1 = 100%	Yes
Examine how ethics applies to fire and emergency service leadership.	FS205-3 = 100%	Yes
Describe common approaches to ethical issues faced by fire and emergency service organizations.	FS205-4 = 100%	Yes
Apply common philosophical concepts in response to contemporary ethical issues.	FS205-5 = 100%	Yes
Analyze fire and EMS department and officer roles in community risk reduction.	FS304-1 = 95%	Yes
Analyze fire and life safety education concepts as they relate to incidents of historical significance.	FS401-4 = 99%	Yes
Psychology: Analyze the issues that deal with the psychological effects of fire dynamics.BSFS-3	FS498-10 = 100%	Yes
Psychology: Appraise issues that deal with the psychological effects of emergency services, safety, and survival.	FS498-5 = 100%	Yes

## BSFEM-6 Program Outcomes

Research Methods: Demonstrate critical thinking to perform research about the management of disaster and fire defense planning using commonly accepted quantitative and qualitative analytical tools to understand and evaluate fire and emergency situations and scenarios.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the history of fire prevention.	FS105-1 = 100%	Yes
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-3 = 71%	No
Discuss the aspects of criminal and civil laws that emergency services agencies are likely to encounter.	FS208-2 = 100%	Yes
Discuss federal and state laws that have an impact on the management of emergency services.	FS208-3 = 100%	Yes
Analyze the impact of recent legal decisions on emergency services agencies.	FS208-4 = 100%	Yes
Explain the difference between continuity planning and emergency operation planning.	FS220-4 = 90%	Yes
Analyze the components of both short and long term disaster recovery operations.	FS320-1 = 100%	Yes
Formulate effective decisions based on fire service management and leadership guidelines.	FS401-1 = 99%	Yes
Select effective financial and department resource management methods.	FS401-5 = 100%	Yes
Evaluate appropriate methods of managing standard operating procedures and departmental policies.	FS403-3 = 100%	Yes
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Evaluate the government's role in hazard mitigation.	FS420-3 = 100%	Yes
Evaluate the impact of key events on the evolution of disaster policy.	FS425-1 = 100%	Yes
Critique policy decisions made in disaster management.	FS425-2 = 100%	Yes
Analyze the process of disaster management policy writing.	FS425-3 = 100%	Yes
Research Methods: Apply scientific methods of inquiry to arrive at reasoned decisions regarding fire science. BSFS-4	FS498-11 = 100%	Yes
Research Methods: Demonstrate critical thinking to perform research about the management of disaster and fire defense planning using commonly accepted quantitative and qualitative analytical tools to understand and evaluate fire and emergency situations.	FS498-6 = 100%	Yes

### BSFEM-7 Program Outcomes

Technology: Evaluate the use of technology to inform and enhance operational and strategic emergency management decisions.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Technology: Evaluate the use of technology to inform and enhance operational and strategic emergency management decisions.	FS498-7 = 100%	Yes

DNA = Data Not Available

## BSFEM Program Outcome Information for 2022–2023 Academic Year

### BSFEM-1 Program Outcomes

Evaluate ethical, social, civic, cultural, and political issues as they relate to the management of emergency services, safety, and survival.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Analyze standardized response methodologies.	CJ307-3 = 94%	Yes
Examine effective resource management.	CJ307-4 = 97%	Yes
Analyze the relationships among CONPLAN, NIMS and ICS.	CJ307-5 = 93%	Yes
Discuss the historical development of emergency management including the transition to the all hazards concept.	FS120-1 = 100%	Yes
Identify fire service laws, regulations, and terminology.	FS202-1 = 100%	Yes
Describe how fire departments function as part of local government.	FS202-5 = 100%	Yes
Examine how ethics applies to fire and emergency service leadership.	FS205-3 = 100%	Yes
Describe common approaches to ethical issues faced by fire and emergency service organizations.	FS205-4 = 100%	Yes
Differentiate between the types of laws pertinent to emergency services.	FS208-1 = 100%	Yes
Discuss the aspects of criminal and civil laws that emergency services agencies are likely to encounter.	FS208-2 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Analyze the impact of recent legal decisions on emergency services agencies.	FS208-4 = 97%	Yes
Examine the role of ethics in the execution of emergency services and its influence on leadership and decision-making.	FS402-6 = 84%	Yes
Compare general human resources management issues with those common to fire and EMS agencies.	FS414-1 = 90%	Yes
Forecast the possible personnel management concerns that affect the operations of fire and EMS agencies.	FS414-2 = 93%	Yes
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 94%	Yes
Analyze rules, regulations, laws, and policies that impact human resources management.	FS414-5 = 97%	Yes
Ethics: Evaluate ethical, social, civic, cultural, and political issues as they relate to the management of emergency services, safety, and survival.	FS498-1 = 100%	Yes

DNA = Data Not Available

## BSFEM-2 Program Outcomes

Global Awareness: Analyze the social, cultural, behavioral, and economic characteristics of global emergency and disaster planning.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the historical development of emergency management.	FS120-1 = 100%	Yes
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-3 = 97%	Yes
Discuss the state and local laws that have an effect on the management of emergency services.	FS208-3 = 100%	Yes
Explain the difference between continuity planning and emergency operation planning.	FS220-4 = 100%	Yes
Describe the role of the community in emergency response.	FS225-3 = 100%	Yes
Global Awareness: Analyze the social, cultural, behavioral, and economic characteristics of global emergency and disaster planning.	FS498-2 = 100%	Yes

### BSFEM-3 Program Outcomes

Knowledge Base: Develop a comprehensive program for operational and strategic emergency management decisions and materials management.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Describe the development of fire safety codes, inspection procedures, and enforcement.	FS105-3 = 100%	Yes
Describe the relationship between risks, hazards, and vulnerabilities in the risk assessment process.	FS120-2 = 100%	Yes
Explain the concept of mitigation in emergency management.	FS120-3 = 97%	Yes
Distinguish between the preparedness and administrative functions of the emergency management program.	FS120-4 = 100%	Yes
Identify the responsibilities of the emergency manager during the response and recovery phases of a disaster.	FS120-5 = 100%	Yes
Explain the current roles of fire protection agencies.	FS202-2 = 100%	Yes
Explain how fire protection services are organized.	FS202-3 = 97%	Yes
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-4 = 100%	Yes
Describe common approaches to ethical issues faced by fire and emergency service organizations.	FS205-4 = 100%	Yes
Demonstrate college-level communication through the composition of original materials in Standard American English.	FS205 GEL-1.1 =	DNA
Identify the phases of a disaster.	FS225-1 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Explain the purpose of the National Response Framework.	FS225-2 = 100%	Yes
Describe the role of the community in emergency response.	FS225-3 = 100%	Yes
Compare the responsibilities of on-scene responders and the Emergency Operations Center.	FS225-4 = 100%	Yes
Describe the federal disaster assistance recovery process.	FS225-5 = 91%	Yes
Demonstrate college-level communication through the composition of original materials in Standard American English.	FS225 GEL-1.1 =	DNA
Use electronic libraries/databases for research purposes.	FS225 GEL-6.5 =	DNA
Analyze the components of both short and long term disaster recovery operations.	FS320-1 = 100%	Yes
Explain the procedure for requesting federal assistance.	FS320-5 = 94%	Yes
Analyze the impact of human expressions on culture.	FS320 GEL-5.2 =	DNA
Formulate effective decisions based on fire service management and leadership guidelines.	FS401-1 = 94%	Yes
Appraise fire prevention research as a part of community risk reduction and education.	FS401-3 = 97%	Yes
Apply the principles of the legal system as it pertains to the management of human resources within the realm of emergency services.	FS402-3 = 92%	Yes
Analyze rules, regulations, laws, and policies that impact human resources management.	FS414-5 = 97%	Yes



Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Determine the purpose of hazard mitigation in the emergency management cycle.	FS420-1 = 100%	Yes
Evaluate the government's role in hazard mitigation.	FS420-3 = 100%	Yes
Examine the types of hazards emergency managers must mitigate.	FS420-4 = 100%	Yes
Critique policy decisions made in disaster management.	FS425-2 = 100%	Yes
Analyze the process of disaster management policy writing.	FS425-3 = 100%	Yes
Fire Foundations: Demonstrate an understanding of building construction as it relates to fire fighter safety, building codes, fire prevention, code inspection, and firefighting strategy and tactics. BSFS -1	FS498-8 = 100%	Yes
Knowledge Base: Develop a comprehensive program for operational and strategic emergency management decisions and materials management.	FS498-3 = 100%	Yes

#### BSFEM-4 Program Outcomes

Operations: Apply project management strategies that illustrate the design and management of disaster and fire-defense planning.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the philosophy of fire prevention as it applies to fire service organizations.	FS105-2 = 100%	Yes
Describe how the role of the fire service administration with regard to fire prevention, work municipal government.	FS105-4 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Illustrate how fire service personnel are prepared for fire prevention functions within the fire service.	FS105-5 = 100%	Yes
Identify the responsibilities of the emergency manager during the response and recovery phases of a disaster.	FS120-5 = 100%	Yes
Identify the components of a risk management and communications program.	FS220-1 = 95%	Yes
Examine the difference between the tactical and operational levels within the emergency management framework.	FS220-3 = 98%	Yes
Explain the difference between continuity planning and emergency operation planning.	FS220-4 = 100%	Yes
Compare the responsibilities of on-scene responders and the Emergency Operations Center.	FS225-4 = 100%	Yes
Develop community risk reduction objectives and determine appropriate methods to meet them.	FS304-1 = 90%	Yes
Develop effective intervention strategies given community research and involvement.	FS304-2 = 87%	Yes
Create an effective community risk reduction program.	FS304-3 = 83%	Yes
Evaluate community risk reduction programs.	FS304-4 = 80%	Yes
Compare the roles and responsibilities of local, state, and federal governments in recovery operations.	FS320-2 = 100%	Yes
Compare the roles and responsibilities of private sector individuals, organizations, and insurance providers in recovery operations.	FS320-3 = 98%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Create a disaster recovery plan.	FS320-4 = 98%	Yes
Apply the skills and actions of leadership and management.	FS403-1 = 100%	Yes
Forecast the possible personnel management concerns that affect the operations of fire and EMS agencies.	FS414-2 = 93%	Yes
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 94%	Yes
Develop a Threat and Hazard Identification and Risk Assessment (THIRA).	FS420-5 = 98%	Yes
Examine the process of implementing disaster policy.	FS425-4 = 100%	Yes
Operations: Apply project management strategies that illustrate the design and management of disaster and fire- defense planning.	FS498-4 = 100%	Yes

### BSFEM-5 Program Outcomes

Psychology: Appraise issues that deal with the psychological effects of emergency services, safety and survival.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Describe ethics and the common philosophical concepts of ethics.	FS205-1 = 100%	Yes
Examine how ethics applies to fire and emergency service leadership.	FS205-3 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Describe common approaches to ethical issues faced by fire and emergency service organizations.	FS205-4= 100%	Yes
Apply common philosophical concepts in response to contemporary ethical issues.	FS205-5 = 100%	Yes
Analyze fire and EMS department and officer roles in community risk reduction.	FS304-1 = 90%	Yes
Analyze fire and life safety education concepts as they relate to incidents of historical significance.	FS401-4 = 100%	Yes
Psychology: Analyze the issues that deal with the psychological effects of fire dynamics.BSFS-3	FS498-10 = 80%	Yes
Psychology: Appraise issues that deal with the psychological effects of emergency services, safety, and survival.	FS498-5 = 98%	Yes

### BSFEM-6 Program Outcomes

Research Methods: Demonstrate critical thinking to perform research about the management of disaster and fire defense planning using commonly accepted quantitative and qualitative analytical tools to understand and evaluate fire and emergency situations and scenarios.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the history of fire prevention.	FS105-1 = 100%	Yes
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-3 = 97%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the aspects of criminal and civil laws that emergency services agencies are likely to encounter.	FS208-2 = 100%	Yes
Discuss federal and state laws that have an impact on the management of emergency services.	FS208-3 = 100%	Yes
Analyze the impact of recent legal decisions on emergency services agencies.	FS208-4 = 97%	Yes
Explain the difference between continuity planning and emergency operation planning.	FS220-4 = 100%	Yes
Analyze the components of both short and long term disaster recovery operations.	FS320-1 = 100%	Yes
Formulate effective decisions based on fire service management and leadership guidelines.	FS401-1 = 94%	Yes
Select effective financial and department resource management methods.	FS401-5 = 100%	Yes
Evaluate appropriate methods of managing standard operating procedures and departmental policies.	FS403-3 = 100%	Yes
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 94%	Yes
Evaluate the government's role in hazard mitigation.	FS420-3 = 100%	Yes
Evaluate the impact of key events on the evolution of disaster policy.	FS425-1 = 100%	Yes
Critique policy decisions made in disaster management.	FS425-2 = 100%	Yes
Analyze the process of disaster management policy writing.	FS425-3 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Research Methods: Apply scientific methods of inquiry to arrive at reasoned decisions regarding fire science. BSFS-4	FS498-11 = 100%	Yes
Research Methods: Demonstrate critical thinking to perform research about the management of disaster and fire defense planning using commonly accepted quantitative and qualitative analytical tools to understand and evaluate fire and emergency situations.	FS498-6 = 100%	Yes

### BSFEM-7 Program Outcomes

Technology: Evaluate the use of technology to inform and enhance operational and strategic emergency management decisions.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Technology: Evaluate the use of technology to inform and enhance operational and strategic emergency management decisions.	FS498-7 = 100%	Yes

DNA = Data Not Available

## BSFEM Program Outcome Information for 2021–2022 Academic Year

### BSFEM-1 Program Outcomes

Evaluate ethical, social, civic, cultural, and political issues as they relate to the management of emergency services, safety, and survival.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Analyze standardized response methodologies.	CJ307-3 = 96%	Yes
Examine effective resource management.	CJ307-4 = 100%	Yes
Analyze the relationships among CONPLAN, NIMS and ICS.	CJ307-5 = 100%	Yes
Discuss the historical development of emergency management including the transition to the all hazards concept.	FS120-1 = 93%	Yes
Identify fire service laws, regulations, and terminology.	FS202-1 = 91%	Yes
Describe how fire departments function as part of local government.	FS202-5 = 95%	Yes
Examine how ethics applies to fire and emergency service leadership.	FS205-3 = 100%	Yes
Describe common approaches to ethical issues faced by fire and emergency service organizations.	FS205-4 = 96%	Yes
Differentiate between the types of laws pertinent to emergency services.	FS208-1 = 100%	Yes
Discuss the aspects of criminal and civil laws that emergency services agencies are likely to encounter.	FS208-2 = 100%	Yes
Analyze the impact of recent legal decisions on emergency services agencies.	FS208-4 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Examine the role of ethics in the execution of emergency services and its influence on leadership and decision-making.	FS402-6 = 86%	Yes
Compare general human resources management issues with those common to fire and EMS agencies.	FS414-1 = 94%	Yes
Forecast the possible personnel management concerns that affect the operations of fire and EMS agencies.	FS414-2 = 90%	Yes
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 94%	Yes
Analyze rules, regulations, laws, and policies that impact human resources management.	FS414-5 = 92%	Yes
Ethics: Evaluate ethical, social, civic, cultural, and political issues as they relate to the management of emergency services, safety, and survival.	FS498-1 = 100%	Yes

DNA = Data Not Available

### BSFEM-2 Program Outcomes

Global Awareness: Analyze the social, cultural, behavioral, and economic characteristics of global emergency and disaster planning.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the historical development of emergency management.	FS120-1 = 93%	Yes



Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-3 = 100%	Yes
Discuss the state and local laws that have an effect on the management of emergency services.	FS208-3 = 100%	Yes
Explain the difference between continuity planning and emergency operation planning.	FS220-4 = 100%	Yes
Describe the role of the community in emergency response.	FS225-3 = 100%	Yes
Global Awareness: Analyze the social, cultural, behavioral, and economic characteristics of global emergency and disaster planning.	FS498-2 = 100%	Yes

### BSFEM-3 Program Outcomes

Knowledge Base: Develop a comprehensive program for operational and strategic emergency management decisions and materials management.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Describe the development of fire safety codes, inspection procedures, and enforcement.	FS105-3 = 100%	Yes
Describe the relationship between risks, hazards, and vulnerabilities in the risk assessment process.	FS120-2 = 100%	Yes
Explain the concept of mitigation in emergency management.	FS120-3 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Distinguish between the preparedness and administrative functions of the emergency management program.	FS120-4 = 100%	Yes
Identify the responsibilities of the emergency manager during the response and recovery phases of a disaster.	FS120-5 = 100%	Yes
Explain the current roles of fire protection agencies.	FS202-2 = 78%	Yes
Explain how fire protection services are organized.	FS202-3 = 100%	Yes
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-4 = 95%	Yes
Describe common approaches to ethical issues faced by fire and emergency service organizations.	FS205-4 = 96%	Yes
Demonstrate college-level communication through the composition of original materials in Standard American English.	FS205 GEL-1.1 =	DNA
Identify the phases of a disaster.	FS225-1 = 100%	Yes
Explain the purpose of the National Response Framework.	FS225-2 = 100%	Yes
Describe the role of the community in emergency response.	FS225-3 = 100%	Yes
Compare the responsibilities of on-scene responders and the Emergency Operations Center.	FS225-4 = 100%	Yes
Describe the federal disaster assistance recovery process.	FS225-5 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Demonstrate college-level communication through the composition of original materials in Standard American English.	FS225 GEL-1.1 =	DNA
Use electronic libraries/databases for research purposes.	FS225 GEL-6.5 =	DNA
Analyze the components of both short and long term disaster recovery operations.	FS320-1 = 94%	Yes
Explain the procedure for requesting federal assistance.	FS320-5 = 97%	Yes
Analyze the impact of human expressions on culture.	FS320 GEL-5.2 =	DNA
Formulate effective decisions based on fire service management and leadership guidelines.	FS401-1 = 98%	Yes
Appraise fire prevention research as a part of community risk reduction and education.	FS401-3 = 96%	Yes
Apply the principles of the legal system as it pertains to the management of human resources within the realm of emergency services.	FS402-3 = 90%	Yes
Analyze rules, regulations, laws, and policies that impact human resources management.	FS414-5 = 92%	Yes
Determine the purpose of hazard mitigation in the emergency management cycle.	FS420-1 = 100%	Yes
Evaluate the government's role in hazard mitigation.	FS420-3 = 98%	Yes
Examine the types of hazards emergency managers must mitigate.	FS420-4 = 100%	Yes
Critique policy decisions made in disaster management.	FS425-2 = 100%	Yes
Analyze the process of disaster management policy writing.	FS425-3 = 99%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Fire Foundations: Demonstrate an understanding of building construction as it relates to fire fighter safety, building codes, fire prevention, code inspection, and firefighting strategy and tactics. BSFS -1	FS498-8 = 100%	Yes
Knowledge Base: Develop a comprehensive program for operational and strategic emergency management decisions and materials management.	FS498-3 = 98%	Yes

#### BSFEM-4 Program Outcomes

Operations: Apply project management strategies that illustrate the design and management of disaster and fire-defense planning.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the philosophy of fire prevention as it applies to fire service organizations.	FS105-2 = 100%	Yes
Describe how the role of the fire service administration with regard to fire prevention, work municipal government.	FS105-4 = 100%	Yes
Illustrate how fire service personnel are prepared for fire prevention functions within the fire service.	FS105-5 = 100%	Yes
Identify the responsibilities of the emergency manager during the response and recovery phases of a disaster.	FS120-5 = 100%	Yes
Identify the components of a risk management and communications program.	FS220-1 = 95%	Yes
Examine the difference between the tactical and operational levels within the emergency management framework.	FS220-3 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Explain the difference between continuity planning and emergency operation planning.	FS220-4 = 100%	Yes
Compare the responsibilities of on-scene responders and the Emergency Operations Center.	FS225-4 = 100%	Yes
Develop community risk reduction objectives and determine appropriate methods to meet them.	FS304-1 = 94%	Yes
Develop effective intervention strategies given community research and involvement.	FS304-2 = 94%	Yes
Create an effective community risk reduction program.	FS304-3 = 88%	Yes
Evaluate community risk reduction programs.	FS304-4 = 86%	Yes
Compare the roles and responsibilities of local, state, and federal governments in recovery operations.	FS320-2 = 98%	Yes
Compare the roles and responsibilities of private sector individuals, organizations, and insurance providers in recovery operations.	FS320-3 = 90%	Yes
Create a disaster recovery plan.	FS320-4 = 90%	Yes
Apply the skills and actions of leadership and management.	FS403-1 = 100%	Yes
Forecast the possible personnel management concerns that affect the operations of fire and EMS agencies.	FS414-2 = 90%	Yes
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 94%	Yes
Develop a Threat and Hazard Identification and Risk Assessment (THIRA).	FS420-5 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Examine the process of implementing disaster policy.	FS425-4 = 100%	Yes
Operations: Apply project management strategies that illustrate the design and management of disaster and fire- defense planning.	FS498-4 = 100%	Yes

### BSFEM-5 Program Outcomes

Psychology: Appraise issues that deal with the psychological effects of emergency services, safety and survival.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Describe ethics and the common philosophical concepts of ethics.	FS205-1 = 100%	Yes
Examine how ethics applies to fire and emergency service leadership.	FS205-3 = 100%	Yes
Describe common approaches to ethical issues faced by fire and emergency service organizations.	FS205-4= 96%	Yes
Apply common philosophical concepts in response to contemporary ethical issues.	FS205-5 = 100%	Yes
Analyze fire and EMS department and officer roles in community risk reduction.	FS304-1 = 94%	Yes
Analyze fire and life safety education concepts as they relate to incidents of historical significance.	FS401-4 = 100%	Yes
Psychology: Analyze the issues that deal with the psychological effects of fire dynamics.BSFS-3	FS498-10 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Psychology: Appraise issues that deal with the psychological effects of emergency services, safety, and survival.	FS498-5 = 100%	Yes

### BSFEM-6 Program Outcomes

Research Methods: Demonstrate critical thinking to perform research about the management of disaster and fire defense planning using commonly accepted quantitative and qualitative analytical tools to understand and evaluate fire and emergency situations and scenarios.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the history of fire prevention.	FS105-1 = 100%	Yes
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-3 = 100%	Yes
Discuss the aspects of criminal and civil laws that emergency services agencies are likely to encounter.	FS208-2 = 100%	Yes
Discuss federal and state laws that have an impact on the management of emergency services.	FS208-3 = 100%	Yes
Analyze the impact of recent legal decisions on emergency services agencies.	FS208-4 = 100%	Yes
Explain the difference between continuity planning and emergency operation planning.	FS220-4 = 100%	Yes
Analyze the components of both short and long term disaster recovery operations.	FS320-1 = 94%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Formulate effective decisions based on fire service management and leadership guidelines.	FS401-1 = 98%	Yes
Select effective financial and department resource management methods.	FS401-5 = 100%	Yes
Evaluate appropriate methods of managing standard operating procedures and departmental policies.	FS403-3 = 100%	Yes
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 94%	Yes
Evaluate the government's role in hazard mitigation.	FS420-3 = 98%	Yes
Evaluate the impact of key events on the evolution of disaster policy.	FS425-1 = 100%	Yes
Critique policy decisions made in disaster management.	FS425-2 = 100%	Yes
Analyze the process of disaster management policy writing.	FS425-3 = 99%	Yes
Research Methods: Apply scientific methods of inquiry to arrive at reasoned decisions regarding fire science. BSFS-4	FS498-11 = 100%	Yes
Research Methods: Demonstrate critical thinking to perform research about the management of disaster and fire defense planning using commonly accepted quantitative and qualitative analytical tools to understand and evaluate fire and emergency situations.	FS498-6 = 100%	Yes



### BSFEM-7 Program Outcomes

Technology: Evaluate the use of technology to inform and enhance operational and strategic emergency management decisions.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Technology: Evaluate the use of technology to inform and enhance operational and strategic emergency management decisions.	FS498-7 = 100%	Yes

DNA = Data Not Available

### BSFEM Program Outcome Information for 2020–2021 Academic Year

#### BSFEM-1 Program Outcomes

Evaluate ethical, social, civic, cultural, and political issues as they relate to the management of emergency services, safety, and survival.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Analyze standardized response methodologies.	CJ307-3 = 99%	Yes
Examine effective resource management.	CJ307-4 = 97%	Yes
Analyze the relationships among CONPLAN, NIMS and ICS.	CJ307-5 = 98%	Yes
Discuss the historical development of emergency management including the transition to the all hazards concept.	FS120-1 = 100%	Yes
Identify fire service laws, regulations, and terminology.	FS202-1 = 100%	Yes
Describe how fire departments function as part of local government.	FS202-5 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Examine how ethics applies to fire and emergency service leadership.	FS205-3 = 100%	Yes
Describe common approaches to ethical issues faced by fire and emergency service organizations.	FS205-4 = 100%	Yes
Differentiate between the types of laws pertinent to emergency services.	FS208-1 = 100%	Yes
Discuss the aspects of criminal and civil laws that emergency services agencies are likely to encounter.	FS208-2 = 100%	Yes
Analyze the impact of recent legal decisions on emergency services agencies.	FS208-4 = 100%	Yes
Examine the role of ethics in the execution of emergency services and its influence on leadership and decision-making.	FS402-6 = 90%	Yes
Compare general human resources management issues with those common to fire and EMS agencies.	FS414-1 = 98%	Yes
Forecast the possible personnel management concerns that affect the operations of fire and EMS agencies.	FS414-2 = 100%	Yes
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 100%	Yes
Analyze rules, regulations, laws, and policies that impact human resources management.	FS414-5 = 100%	Yes
Ethics: Evaluate ethical, social, civic, cultural, and political issues as they relate to the management of emergency services, safety, and survival.	FS498-1 = 100%	Yes

DNA = Data Not Available

## BSFEM-2 Program Outcomes

Global Awareness: Analyze the social, cultural, behavioral, and economic characteristics of global emergency and disaster planning.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the historical development of emergency management.	FS120-1 = 100%	Yes
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-3 = 98%	Yes
Discuss the state and local laws that have an effect on the management of emergency services.	FS208-3 = 100%	Yes
Explain the difference between continuity planning and emergency operation planning.	FS220-4 = 100%	Yes
Describe the role of the community in emergency response.	FS225-3 = 100%	Yes
Global Awareness: Analyze the social, cultural, behavioral, and economic characteristics of global emergency and disaster planning.	FS498-2 = 100%	Yes

### BSFEM-3 Program Outcomes

Knowledge Base: Develop a comprehensive program for operational and strategic emergency management decisions and materials management.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Describe the development of fire safety codes, inspection procedures, and enforcement.	FS105-3 = 100%	Yes
Describe the relationship between risks, hazards, and vulnerabilities in the risk assessment process.	FS120-2 = 100%	Yes
Explain the concept of mitigation in emergency management.	FS120-3 = 99%	Yes
Distinguish between the preparedness and administrative functions of the emergency management program.	FS120-4 = 100%	Yes
Identify the responsibilities of the emergency manager during the response and recovery phases of a disaster.	FS120-5 = 100%	Yes
Explain the current roles of fire protection agencies.	FS202-2 = 100%	Yes
Explain how fire protection services are organized.	FS202-3 = 98%	Yes
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-4 = 98%	Yes
Describe common approaches to ethical issues faced by fire and emergency service organizations.	FS205-4 = 100%	Yes
Demonstrate college-level communication through the composition of original materials in Standard American English.	FS205 GEL-1.1 =	DNA

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Identify the phases of a disaster.	FS225-1 = 100%	Yes
Explain the purpose of the National Response Framework.	FS225-2 = 100%	Yes
Describe the role of the community in emergency response.	FS225-3 = 100%	Yes
Compare the responsibilities of on-scene responders and the Emergency Operations Center.	FS225-4 = 100%	Yes
Describe the federal disaster assistance recovery process.	FS225-5 = 97%	Yes
Demonstrate college-level communication through the composition of original materials in Standard American English.	FS225 GEL-1.1 =	DNA
Use electronic libraries/databases for research purposes.	FS225 GEL-6.5 =	DNA
Analyze the components of both short and long term disaster recovery operations.	FS320-1 = 100%	Yes
Explain the procedure for requesting federal assistance.	FS320-5 = 98%	Yes
Analyze the impact of human expressions on culture.	FS320 GEL-5.2 =	DNA
Formulate effective decisions based on fire service management and leadership guidelines.	FS401-1 = 97%	Yes
Appraise fire prevention research as a part of community risk reduction and education.	FS401-3 = 100%	Yes
Apply the principles of the legal system as it pertains to the management of human resources within the realm of emergency services.	FS402-3 = 91%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Analyze rules, regulations, laws, and policies that impact human resources management.	FS414-5 = 100%	Yes
Determine the purpose of hazard mitigation in the emergency management cycle.	FS420-1 = 100%	Yes
Evaluate the government's role in hazard mitigation.	FS420-3 = 96%	Yes
Examine the types of hazards emergency managers must mitigate.	FS420-4 = 100%	Yes
Critique policy decisions made in disaster management.	FS425-2 = 100%	Yes
Analyze the process of disaster management policy writing.	FS425-3 = 100%	Yes
Fire Foundations: Demonstrate an understanding of building construction as it relates to fire fighter safety, building codes, fire prevention, code inspection, and firefighting strategy and tactics. BSFS -1	FS498-8 = 100%	Yes
Knowledge Base: Develop a comprehensive program for operational and strategic emergency management decisions and materials management.	FS498-3 = 100%	Yes

#### BSFEM-4 Program Outcomes

Operations: Apply project management strategies that illustrate the design and management of disaster and fire-defense planning.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the philosophy of fire prevention as it applies to fire service organizations.	FS105-2 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Describe how the role of the fire service administration with regard to fire prevention, work municipal government.	FS105-4 = 99%	Yes
Illustrate how fire service personnel are prepared for fire prevention functions within the fire service.	FS105-5 = 100%	Yes
Identify the responsibilities of the emergency manager during the response and recovery phases of a disaster.	FS120-5 = 100%	Yes
Identify the components of a risk management and communications program.	FS220-1 = 100%	Yes
Examine the difference between the tactical and operational levels within the emergency management framework.	FS220-3 = 100%	Yes
Explain the difference between continuity planning and emergency operation planning.	FS220-4 = 100%	Yes
Compare the responsibilities of on-scene responders and the Emergency Operations Center.	FS225-4 = 100%	Yes
Develop community risk reduction objectives and determine appropriate methods to meet them.	FS304-1 = 99%	Yes
Develop effective intervention strategies given community research and involvement.	FS304-2 = 100%	Yes
Create an effective community risk reduction program.	FS304-3 = 96%	Yes
Evaluate community risk reduction programs.	FS304-4 = 95%	Yes
Compare the roles and responsibilities of local, state, and federal governments in recovery operations.	FS320-2 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Compare the roles and responsibilities of private sector individuals, organizations, and insurance providers in recovery operations.	FS320-3 = 99%	Yes
Create a disaster recovery plan.	FS320-4 = 100%	Yes
Apply the skills and actions of leadership and management.	FS403-1 = 100%	Yes
Forecast the possible personnel management concerns that affect the operations of fire and EMS agencies.	FS414-2 = 100%	Yes
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 100%	Yes
Develop a Threat and Hazard Identification and Risk Assessment (THIRA).	FS420-5 = 98%	Yes
Examine the process of implementing disaster policy.	FS425-4 = 100%	Yes
Operations: Apply project management strategies that illustrate the design and management of disaster and fire- defense planning.	FS498-4 = 100%	Yes

### BSFEM-5 Program Outcomes

Psychology: Appraise issues that deal with the psychological effects of emergency services, safety and survival.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Describe ethics and the common philosophical concepts of ethics.	FS205-1 = 100%	Yes



Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Examine how ethics applies to fire and emergency service leadership.	FS205-3 = 100%	Yes
Describe common approaches to ethical issues faced by fire and emergency service organizations.	FS205-4 = 100%	Yes
Apply common philosophical concepts in response to contemporary ethical issues.	FS205-5 = 100%	Yes
Analyze fire and EMS department and officer roles in community risk reduction.	FS304-1 = 99%	Yes
Analyze fire and life safety education concepts as they relate to incidents of historical significance.	FS401-4 = 99%	Yes
Psychology: Analyze the issues that deal with the psychological effects of fire dynamics.BSFS-3	FS498-10 = 100%	Yes
Psychology: Appraise issues that deal with the psychological effects of emergency services, safety, and survival.	FS498-5 = 100%	Yes

### BSFEM-6 Program Outcomes

Research Methods: Demonstrate critical thinking to perform research about the management of disaster and fire defense planning using commonly accepted quantitative and qualitative analytical tools to understand and evaluate fire and emergency situations and scenarios.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the history of fire prevention.	FS105-1 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-3 = 98%	Yes
Discuss the aspects of criminal and civil laws that emergency services agencies are likely to encounter.	FS208-2 = 100%	Yes
Discuss federal and state laws that have an impact on the management of emergency services.	FS208-3 = 100%	Yes
Analyze the impact of recent legal decisions on emergency services agencies.	FS208-4 = 100%	Yes
Explain the difference between continuity planning and emergency operation planning.	FS220-4 = 100%	Yes
Analyze the components of both short and long term disaster recovery operations.	FS320-1 = 100%	Yes
Formulate effective decisions based on fire service management and leadership guidelines.	FS401-1 = 97%	Yes
Select effective financial and department resource management methods.	FS401-5 = 99%	Yes
Evaluate appropriate methods of managing standard operating procedures and departmental policies.	FS403-3 = 100%	Yes
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 100%	Yes
Evaluate the government's role in hazard mitigation.	FS420-3 = 96%	Yes
Evaluate the impact of key events on the evolution of disaster policy.	FS425-1 = 99%	Yes
Critique policy decisions made in disaster management.	FS425-2 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Analyze the process of disaster management policy writing.	FS425-3 = 100%	Yes
Research Methods: Apply scientific methods of inquiry to arrive at reasoned decisions regarding fire science. BSFS-4	FS498-11 = 100%	Yes
Research Methods: Demonstrate critical thinking to perform research about the management of disaster and fire defense planning using commonly accepted quantitative and qualitative analytical tools to understand and evaluate fire and emergency situations.	FS498-6 = 100%	Yes

### BSFEM-7 Program Outcomes

Technology: Evaluate the use of technology to inform and enhance operational and strategic emergency management decisions.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Technology: Evaluate the use of technology to inform and enhance operational and strategic emergency management decisions.	FS498-7 = 100%	Yes

DNA = Data Not Available

## BSFEM Program Outcome Information for 2019–2020 Academic Year

### BSFEM-1 Program Outcomes

Evaluate ethical, social, civic, cultural, and political issues as they relate to the management of emergency services, safety, and survival.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Analyze standardized response methodologies.	CJ307-3 = 98%	Yes
Examine effective resource management.	CJ307-4 = 98%	Yes
Analyze the relationships among CONPLAN, NIMS and ICS.	CJ307-5 = 98%	Yes
Discuss the historical development of emergency management including the transition to the all hazards concept.	FS120-1 = 100%	Yes
Identify fire service laws, regulations, and terminology.	FS202-1 = 96%	Yes
Describe how fire departments function as part of local government.	FS202-5 = 70%	No
Examine how ethics applies to fire and emergency service leadership.	FS205-3 = 100%	Yes
Describe common approaches to ethical issues faced by fire and emergency service organizations.	FS205-4 = 100%	Yes
Differentiate between the types of laws pertinent to emergency services.	FS208-1 = 100%	Yes
Discuss the aspects of criminal and civil laws that emergency services agencies are likely to encounter.	FS208-2 = 100%	Yes
Analyze the impact of recent legal decisions on emergency services agencies.	FS208-4 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Examine the role of ethics in the execution of emergency services and its influence on leadership and decision-making.	FS402-6 = 78%	Yes
Compare general human resources management issues with those common to fire and EMS agencies.	FS414-1 = 100%	Yes
Forecast the possible personnel management concerns that affect the operations of fire and EMS agencies.	FS414-2 = 98%	Yes
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 100%	Yes
Analyze rules, regulations, laws, and policies that impact human resources management.	FS414-5 = 100%	Yes
Ethics: Evaluate ethical, social, civic, cultural, and political issues as they relate to the management of emergency services, safety, and survival.	FS498-1 = 100%	Yes

DNA = Data Not Available

### BSFEM-2 Program Outcomes

Global Awareness: Analyze the social, cultural, behavioral, and economic characteristics of global emergency and disaster planning.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the historical development of emergency management.	FS120-1 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-3 = 83%	Yes
Discuss the state and local laws that have an effect on the management of emergency services.	FS208-3 = 100%	Yes
Explain the difference between continuity planning and emergency operation planning.	FS220-4 = 100%	Yes
Describe the role of the community in emergency response.	FS225-2 = 100%	Yes
Global Awareness: Analyze the social, cultural, behavioral, and economic characteristics of global emergency and disaster planning.	FS498-2 = 100%	Yes

### BSFEM-3 Program Outcomes

Knowledge Base: Develop a comprehensive program for operational and strategic emergency management decisions and materials management.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Describe the development of fire safety codes, inspection procedures, and enforcement.	FS105-3 = 94%	Yes
Describe the relationship between risks, hazards, and vulnerabilities in the risk assessment process.	FS120-2 = 100%	Yes
Explain the concept of mitigation in emergency management.	FS120-3 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Distinguish between the preparedness and administrative functions of the emergency management program.	FS120-4 = 100%	Yes
Identify the responsibilities of the emergency manager during the response and recovery phases of a disaster.	FS120-5 = 100%	Yes
Explain the current roles of fire protection agencies.	FS202-2 = 93%	Yes
Explain how fire protection services are organized.	FS202-3 = 83%	Yes
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-4 = 84%	Yes
Describe common approaches to ethical issues faced by fire and emergency service organizations.	FS205-4 = 100%	Yes
Demonstrate college-level communication through the composition of original materials in Standard American English.	FS205 GEL-1.1 =	DNA
Identify the phases of a disaster.	FS225-1 = 100%	Yes
Describe the role of the community in emergency response.	FS225-2 = 100%	Yes
Compare the responsibilities of on-scene responders and the Emergency Operations Center.	FS225-3 = 100%	Yes
Describe the roles and responsibilities of personnel in disaster response.	FS225-4 = 100%	Yes
Define the federal disaster assistance process.	FS225-5 = 100%	Yes
Explain the purpose of the National Response Plan.	FS225-6 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Demonstrate college-level communication through the composition of original materials in Standard American English.	FS225 GEL-1.1 =	DNA
Use electronic libraries/databases for research purposes.	FS225 GEL-6.5 =	DNA
Analyze the components of both short and long term disaster recovery operations.	FS320-1 = 100%	Yes
Explain the procedure for requesting federal assistance.	FS320-5 = 98%	Yes
Analyze the impact of human expressions on culture.	FS320 GEL-5.2 =	DNA
Formulate effective decisions based on fire service management and leadership guidelines.	FS401-1 = 93%	Yes
Appraise fire prevention research as a part of community risk reduction and education.	FS401-3 = 98%	Yes
Apply the principles of the legal system as it pertains to the management of human resources within the realm of emergency services.	FS402-3 = 85%	Yes
Analyze rules, regulations, laws, and policies that impact human resources management.	FS414-5 = 100%	Yes
Evaluate hazard mitigation measures.	FS420-1 = 100%	Yes
Assess how laws, standards and codes relate to hazard mitigation.	FS420-2 = 100%	Yes
Examine mitigation efforts used to eliminate or reduce a problem or a threat.	FS420-3 = 100%	Yes
Analyze policy decisions made in disaster management.	FS425-1 = 100%	Yes
Analyze the process of disaster management policy writing.	FS425-2 = 80%	Yes



Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Fire Foundations: Demonstrate an understanding of building construction as it relates to fire fighter safety, building codes, fire prevention, code inspection, and firefighting strategy and tactics. BSFS -1	FS498-8 = 100%	Yes
Knowledge Base: Develop a comprehensive program for operational and strategic emergency management decisions and materials management.	FS498-3 = 100%	Yes

#### BSFEM-4 Program Outcomes

Operations: Apply project management strategies that illustrate the design and management of disaster and fire-defense planning.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the philosophy of fire prevention as it applies to fire service organizations.	FS105-2 = 100%	Yes
Describe how the role of the fire service administration with regard to fire prevention, work municipal government.	FS105-4 = 99%	Yes
Illustrate how fire service personnel are prepared for fire prevention functions within the fire service.	FS105-5 = 100%	Yes
Identify the responsibilities of the emergency manager during the response and recovery phases of a disaster.	FS120-5 = 100%	Yes
Identify the components of a risk management and communications program.	FS220-1 = 97%	Yes
Examine the difference between the tactical and operational levels within the emergency management framework.	FS220-3 = 97%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Explain the difference between continuity planning and emergency operation planning.	FS220-4 = 100%	Yes
Compare the responsibilities of on-scene responders and the Emergency Operations Center.	FS225-3 = 100%	Yes
Describe the roles and responsibilities of personnel in disaster response.	FS225-4 = 100%	Yes
Develop community risk reduction objectives and determine appropriate methods to meet them.	FS304-1 = 100%	Yes
Develop effective intervention strategies given community research and involvement.	FS304-2 = 94%	Yes
Create an effective community risk reduction program.	FS304-3 = 97%	Yes
Evaluate community risk reduction programs.	FS304-4 = 100%	Yes
Compare the roles and responsibilities of local, state, and federal governments in recovery operations.	FS320-2 = 95%	Yes
Compare the roles and responsibilities of private sector individuals, organizations, and insurance providers in recovery operations.	FS320-3 = 98%	Yes
Create a disaster recovery plan.	FS320-4 = 98%	Yes
Apply the skills and actions of leadership and management.	FS403-1 = 100%	Yes
Forecast the possible personnel management concerns that affect the operations of fire and EMS agencies.	FS414-2 = 98%	Yes
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Design a risk assessment for a hazard that affects your community.	FS420-4 = 100%	Yes
Examine the process of implementing disaster policy.	FS425-3 = 78%	Yes
Operations: Apply project management strategies that illustrate the design and management of disaster and fire- defense planning.	FS498-4 = 100%	Yes

### BSFEM-5 Program Outcomes

Psychology: Appraise issues that deal with the psychological effects of emergency services, safety and survival.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Describe ethics and the common philosophical concepts of ethics.	FS205-1 = 100%	Yes
Examine how ethics applies to fire and emergency service leadership.	FS205-3 = 100%	Yes
Describe common approaches to ethical issues faced by fire and emergency service organizations.	FS205-4 = 100%	Yes
Apply common philosophical concepts in response to contemporary ethical issues.	FS205-5 = 100%	Yes
Analyze fire and EMS department and officer roles in community risk reduction.	FS304-5 = 100%	Yes
Analyze fire and life safety education concepts as they relate to incidents of historical significance.	FS401-4 = 98%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Psychology: Analyze the issues that deal with the psychological effects of fire dynamics.BSFS-3	FS498-10 = 100%	Yes
Psychology: Appraise issues that deal with the psychological effects of emergency services, safety, and survival.	FS498-5 = 100%	Yes

### BSFEM-6 Program Outcomes

Research Methods: Demonstrate critical thinking to perform research about the management of disaster and fire defense planning using commonly accepted quantitative and qualitative analytical tools to understand and evaluate fire and emergency situations and scenarios.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the history of fire prevention.	FS105-1 = 100%	Yes
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-3 = 83%	Yes
Discuss the aspects of criminal and civil laws that emergency services agencies are likely to encounter.	FS208-2 = 100%	Yes
Discuss federal and state laws that have an impact on the management of emergency services.	FS208-3 = 100%	Yes
Analyze the impact of recent legal decisions on emergency services agencies.	FS208-4 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Explain the difference between continuity planning and emergency operation planning.	FS220-4 = 100%	Yes
Analyze the components of both short and long term disaster recovery operations.	FS320-1 = 100%	Yes
Formulate effective decisions based on fire service management and leadership guidelines.	FS401-1 = 93%	Yes
Select effective financial and department resource management methods.	FS401-5 = 100%	Yes
Evaluate appropriate methods of managing standard operating procedures and departmental policies.	FS403-3 = 100%	Yes
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 100%	Yes
Assess how laws, standards and codes relate to hazard mitigation.	FS420-2 = 100%	Yes
Analyze policy decisions made in disaster management.	FS425-1 = 100%	Yes
Analyze the process of disaster management policy writing.	FS425-2 = 80%	Yes
Evaluate the impact of key events on the evolution of disaster policy.	FS425-4 = 94%	Yes
Research Methods: Apply scientific methods of inquiry to arrive at reasoned decisions regarding fire science. BSFS-4	FS498-11 = 100%	Yes
Research Methods: Demonstrate critical thinking to perform research about the management of disaster and fire defense planning using commonly accepted quantitative and qualitative analytical tools to understand and evaluate fire and emergency situations.	FS498-6 = 98%	Yes

### BSFEM-7 Program Outcomes

Technology: Evaluate the use of technology to inform and enhance operational and strategic emergency management decisions.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Technology: Evaluate the use of technology to inform and enhance operational and strategic emergency management decisions.	FS498-7 = 100%	Yes

DNA = Data Not Available

### BSFEM Program Outcome Information for 2018–2019 Academic Year

**BSFEM-1 Program Outcomes:** Evaluate ethical, social, civic, cultural, and political issues as they relate to the management of emergency services, safety, and survival.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Analyze the relationships among CONPLAN, NIMS and ICS.	CJ307-1 =	DNA
Analyze standardized response methodologies.	CJ307-2 =	DNA
Discuss effective resource management.	CJ307-3 =	DNA
Discuss the historical development of emergency management.	FS120-1 = 95%	Yes
Identify fire service laws, regulations, and terminology.	FS202-3 = 100%	Yes
Describe how fire departments function as part of local governments.	FS202-4 = 92%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Explain the common types of ethical issues that occur in fire and emergency services.	FS205-1 = 100%	Yes
Identify common approaches to ethical issues faced by fire and emergency service organizations.	FS205-3 = 100%	Yes
Describe the legal responsibilities of emergency services personnel.	FS208-1 = 96%	Yes
Explain common legal issues that impact emergency services.	FS208-2 = 100%	Yes
Analyze the impact of recent legal decisions on emergency services agencies.	FS208-5 = 100%	Yes
Examine the ethical roles of government fire and EMS officials.	FS402-5 = 100%	Yes
Compare general human resources management issues with those common to fire and EMS agencies.	FS414-1 = 100%	Yes
Forecast the possible personnel management concerns that affect the operations of fire and EMS agencies.	FS414-2 = 100%	Yes
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 100%	Yes
Analyze rules, regulations, laws, and policies that impact human resources management.	FS414-4 = 97%	Yes
Ethics: Evaluate ethical, social, civic, cultural, and political issues as they relate to the management of emergency services, safety, and survival.	FS498-1 = 100%	Yes

DNA = Data Not Available

### BSFEM-2 Program Outcomes

Global Awareness: Analyze the social, cultural, behavioral, and economic characteristics of global emergency and disaster planning.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the historical development of emergency management.	FS120-1 = 95%	Yes
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-5 = 100%	Yes
Discuss the state and local laws that have an effect on the management of emergency services.	FS208-4 = 100%	Yes
Explain the process of whole community planning.	FS220-3 = 100%	Yes
Describe the role of the community in emergency response.	FS225-2 = 100%	Yes
Global Awareness: Analyze the social, cultural, behavioral, and economic characteristics of global emergency and disaster planning.	FS498-2 = 100%	Yes

### BSFEM-3 Program Outcomes

Knowledge Base: Develop a comprehensive program for operational and strategic emergency management decisions and materials management.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Describe the development of fire safety codes, inspection procedures, and enforcement.	FS105-3 = 100%	Yes



Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Define the relationship between risks, hazards, and emergencies.	FS120-2 = 92%	Yes
Describe the four phases of emergency management.	FS120-3 = 88%	Yes
Identify the types of resources available for emergency management.	FS120-4 = 82%	Yes
Describe the administrative functions associated with emergency management.	FS120-6 =	DNA
Explain the current roles of fire protection agencies.	FS202-1 = 100%	Yes
Explain how fire protection services are organized.	FS202-2 = 100%	Yes
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-5 = 100%	Yes
Explain the common types of ethical issues that occur in fire and emergency services.	FS205-1 = 100%	Yes
Demonstrate college-level communication through the composition of original materials in Standard American English.	FS205 GEL-1.1 =	DNA
Identify the phases of a disaster.	FS225-1 = 100%	Yes
Describe the role of the community in emergency response.	FS225-2 = 100%	Yes
Compare the responsibilities of on-scene responders and the Emergency Operations Center.	FS225-3 = 86%	Yes
Describe the roles and responsibilities of personnel in disaster response.	FS225-4 = 100%	Yes
Define the federal disaster assistance process.	FS225-5 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Explain the purpose of the National Response Plan.	FS225-6 = 100%	Yes
Demonstrate college-level communication through the composition of original materials in Standard American English.	FS225 GEL-1.1 =	DNA
Use electronic libraries/databases for research purposes.	FS225 GEL-6.5 =	DNA
Analyze the components of both short and long term disaster recovery operations.	FS320-1 = 100%	Yes
Explain the procedure for requesting federal assistance.	FS320-5 = 98%	Yes
Analyze the impact of human expressions on culture.	FS320 GEL-5.2 =	DNA
Formulate effective decisions based on fire service management and leadership guidelines.	FS401-1 = 97%	Yes
Examine the fire officer's role within the organization, with the community, and during emergency response.	FS401-2 = 100%	Yes
Formulate human resources policies based on government roles and impacts.	FS402-2 = 92%	Yes
Analyze rules, regulations, laws, and policies that impact human resources management.	FS414-4 = 97%	Yes
Evaluate hazard mitigation measures.	FS420-1 = 97%	Yes
Assess how laws, standards and codes relate to hazard mitigation.	FS420-2 = 100%	Yes
Examine mitigation efforts used to eliminate or reduce a problem or a threat.	FS420-3 = 100%	Yes
Analyze policy decisions made in disaster management.	FS425-1 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Analyze the process of disaster management policy writing.	FS425-2 = 100%	Yes
Fire Foundations: Demonstrate an understanding of building construction as it relates to fire fighter safety, building codes, fire prevention, code inspection, and firefighting strategy and tactics. BSFS -1	FS498-8 =	DNA
Knowledge Base: Develop a comprehensive program for operational and strategic emergency management decisions and materials management.	FS498-3 = 100%	Yes

DNA = Data Not Available

#### BSFEM-4 Program Outcomes

Operations: Apply project management strategies that illustrate the design and management of disaster and fire-defense planning.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the philosophy of fire prevention as it applies to fire service organizations.	FS105-2 = 100%	Yes
Describe how the role of the fire service administration with regard to fire prevention, work municipal government.	FS105-4 = 100%	Yes
Illustrate how fire service personnel are prepared for fire prevention functions within the fire service.	FS105-5 = 100%	Yes
Discuss the concept of integrated emergency management.	FS120-5 = 86%	Yes
Describe the roles of a planning team.	FS220-2 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Explain the process of whole community planning.	FS220-3 = 100%	Yes
Describe the content of an emergency operations plan.	FS220-4 = 100%	Yes
Compare the responsibilities of on-scene responders and the Emergency Operations Center.	FS225-3 = 86%	Yes
Describe the roles and responsibilities of personnel in disaster response.	FS225-4 = 100%	Yes
Develop risk reduction objectives and determine appropriate methods to meet them.	FS304-1 = 93%	Yes
Develop effective intervention strategies given community research and involvement.	FS304-2 = 91%	Yes
Create an effective community risk reduction program.	FS304-3 = 88%	Yes
Evaluate community risk reduction programs.	FS304-4 = 92%	Yes
Compare the roles and responsibilities of local, state, and federal governments in recovery operations.	FS320-2 = 100%	Yes
Compare the roles and responsibilities of private sector individuals, organizations, and insurance providers in recovery operations.	FS320-3 = 100%	Yes
Create a disaster recovery plan.	FS320-4 = 98%	Yes
Apply the skills and actions of leadership and management.	FS403-1 = 100%	Yes
Forecast the possible personnel management concerns that affect the operations of fire and EMS agencies.	FS414-2 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 100%	Yes
Design a risk assessment for a hazard that affects your community.	FS420-4 = 100%	Yes
Examine the process of implementing disaster policy.	FS425-3 = 92%	Yes
Operations: Apply project management strategies that illustrate the design and management of disaster and fire- defense planning.	FS498-4 = 100%	Yes

### BSFEM-5 Program Outcomes

Psychology: Appraise issues that deal with the psychological effects of emergency services, safety and survival.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Describe common philosophical concepts as tools in relating to today's ethical issues.	FS205-2 = 100%	Yes
Analyze fire and EMS department and officer roles in community risk reduction.	FS304-5 = 95%	Yes
Assess the impact of codes and standards and inspection review processes as it relates to fire prevention.	FS401-4 = 100%	Yes
Psychology: Analyze the issues that deal with the psychological effects of fire dynamics. BSFS-3	FS498-10 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Psychology: Appraise issues that deal with the psychological effects of emergency services, safety, and survival.	FS498-5 = 100%	Yes

### BSFEM-6 Program Outcomes

Research Methods: Demonstrate critical thinking to perform research about the management of disaster and fire defense planning using commonly accepted quantitative and qualitative analytical tools to understand and evaluate fire and emergency situations and scenarios.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Discuss the history of fire prevention.	FS105-1 = 100%	Yes
Apply the components of planning and operations to multiple agency responses to major incidents.	FS202-5 = 100%	Yes
Discuss the aspects of criminal and civil laws that emergency services agencies are likely to encounter.	FS208-3 = 100%	Yes
Discuss the state and local laws that have an effect on the management of emergency services.	FS208-4 = 100%	Yes
Analyze the impact of recent legal decisions on emergency services agencies.	FS208-5 = 100%	Yes
Analyze the components of the emergency planning and preparedness process.	FS220-1 = 100%	Yes
Analyze the components of both short and long term disaster recovery operations.	FS320-1 = 100%	Yes

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Formulate effective decisions based on fire service management and leadership guidelines.	FS401-1 = 97%	Yes
Select effective financial and department resource management methods.	FS401-5 = 100%	Yes
Evaluate appropriate methods of managing standard operating procedures and departmental policies.	FS403-3 = 100%	Yes
Develop recommendations, solutions, and policies for common personnel management matters.	FS414-3 = 100%	Yes
Assess how laws, standards and codes relate to hazard mitigation.	FS420-2 = 100%	Yes
Analyze policy decisions made in disaster management.	FS425-1 = 100%	Yes
Analyze the process of disaster management policy writing.	FS425-2 = 100%	Yes
Evaluate the impact of key events on the evolution of disaster policy.	FS425-4 = 95%	Yes
Research Methods: Apply scientific methods of inquiry to arrive at reasoned decisions regarding fire science. BSFS-4	FS498-11 =	DNA
Research Methods: Demonstrate critical thinking to perform research about the management of disaster and fire defense planning using commonly accepted quantitative and qualitative analytical tools to understand and evaluate fire and emergency situations	FS498-6 = 97%	Yes

**BSFEM-7 Program Outcomes**

Technology: Evaluate the use of technology to inform and enhance operational and strategic emergency management decisions.

Measurement	Assessment/Evaluation Results: % Emergent or greater	Meets Criteria Yes/No
Technology: Evaluate the use of technology to inform and enhance operational and strategic emergency management decisions.	FS498-7 = 100%	Yes