A. **TITLE:** Hazard Assessment and Mitigation

B. **COURSE NUMBER:** EADM 205

C. **CREDIT HOURS:** (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity)
   - # Credit Hours: 3
   - # Lecture Hours: 3 per week
   - # Lab Hours: per week
   - Other: per week

   Course Length: 15 Weeks

D. **WRITING INTENSIVE COURSE:** Yes ☐ No ☒

E. **GER CATEGORY:** None: ☒ Yes: GER
   *If course satisfies more than one:* GER

F. **SEMESTER(S) OFFERED:** Fall ☐ Spring ☐ Fall & Spring ☒

G. **COURSE DESCRIPTION:**

   This course focuses on a generalized understanding and an awareness of various types of threats and hazards. Central to the course is the understanding the technical cooperation regarding hazard and vulnerability assessments, planning doctrine and methodology, inclusion of hazard mitigation strategies in the formulation of projects, and resource management.

H. **PRE-REQUISITES:** None ☒ Yes ☐ If yes, list below:

   **CO-REQUISITES:** None ☒ Yes ☐ If yes, list below:
I. **STUDENT LEARNING OUTCOMES:** *(see key below)*

By the end of this course, the student will be able to:

<table>
<thead>
<tr>
<th>Course Student Learning Outcome [SLO]</th>
<th>Program Student Learning Outcome [PSLO]</th>
<th>GER [if Applicable]</th>
<th>ISLO &amp; SUBSETS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discuss the background of and requirements for hazard risk assessments.</td>
<td>Students will demonstrate an advanced understanding of the core concepts, theories, and doctrine related to emergency and disaster management.</td>
<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>Subsets Subsets Subsets Subsets</td>
</tr>
<tr>
<td>Review the issues and discuss the methods related to all-hazards risk analysis and mitigation planning.</td>
<td>Students will demonstrate an advanced understanding of the core concepts, theories, and doctrine related to emergency and disaster management.</td>
<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>Subsets Subsets Subsets Subsets</td>
</tr>
<tr>
<td>Produce a Hazard Analysis and Vulnerability Assessment for your local area</td>
<td>Students will develop written communications related to emergency management and present projects in multiple formats.</td>
<td>1-Comm Skills ISLO ISLO</td>
<td>W Subsets Subsets Subsets</td>
</tr>
<tr>
<td>Understand the issues involved in strategic hazard mitigation planning and action.</td>
<td>Students will develop and maintain a comprehensive perspective of emergency and disaster management.</td>
<td>4-Soc Respons ISLO ISLO</td>
<td>GL Subsets Subsets Subsets</td>
</tr>
<tr>
<td>Discuss specific hazards including natural and human caused disasters.</td>
<td>Students will develop and maintain a comprehensive perspective of emergency and disaster management.</td>
<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>Subsets Subsets Subsets Subsets</td>
</tr>
<tr>
<td>Discuss the impact of hazards on private-sector entities and continuity planning.</td>
<td>Students will develop and maintain a comprehensive perspective of emergency and disaster management.</td>
<td>4-Soc Respons ISLO ISLO</td>
<td>IK GL Subsets Subsets</td>
</tr>
</tbody>
</table>

| ISLO | ISLO | ISLO | Subsets Subsets Subsets Subsets |

**Key:***
- **ISLO:** Integrative Student Learning Outcomes
- **GER:** General Education Requirements
- **[if Applicable]:** Indicates if the GER applies to the course
- **Subsets:** Refer to specific subsets of the ISLO framework.
### Institutional Student Learning Outcomes [ISLO 1 – 5]

<table>
<thead>
<tr>
<th>KEY</th>
<th>Institutional Student Learning Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISLO #</td>
<td>ISLO &amp; Subsets</td>
</tr>
</tbody>
</table>
| **1** | Communication Skills  
Oral [O], Written [W] |
| **2** | Critical Thinking  
Critical Analysis [CA], Inquiry & Analysis [IA], Problem Solving [PS] |
| **3** | Foundational Skills  
Information Management [IM], Quantitative Lit./Reasoning [QTR] |
| **4** | Social Responsibility  
Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T] |
| **5** | Industry, Professional, Discipline Specific Knowledge and Skills |

*Include program objectives if applicable. Please consult with Program Coordinator*
J. **APPLIED LEARNING COMPONENT:** Yes ☑  No ☐

If YES, select one or more of the following categories:

☑ Classroom/Lab  ☀ Civic Engagement
☑ Internship  ☑ Creative Works/Senior Project
☑ Clinical Placement  ☑ Research
☑ Practicum  ☑ Entrepreneurship (program, class, project)
☑ Service Learning
☑ Community Service

K. **TEXTS:**

All materials are provided to the student.

L. **REFERENCES:**

None

M. **EQUIPMENT:** None ☑ Needed:

N. **GRADING METHOD:** A-F

O. **SUGGESTED MEASUREMENT CRITERIA/METHODS:**

- Writing assignments
- Discussion Boards
- Research Paper
- Participation

P. **DETAILED COURSE OUTLINE:**

I. **INTRODUCTION AND OVERVIEW**
   A. Introduction of risk, hazards, threats, and vulnerability.
   B. Overview of assessments and current practices.
   C. Overview of mitigation strategies.

II. **POLICY, DOCTRINE, AND METHODOLOGY**
   A. FEMA hazard mitigation methodology.
   B. Regulatory requirements for hazard analysis.
   C. Examples of assessments.

III. **HAZARD AND VULNERABILITY ANALYSIS**
   A. Select an area or jurisdiction and conduct a hazard and vulnerability assessment (HVA).
   B. Use results to analyze and prioritize hazards.

IV. **DATA AND MITIGATION STRATEGIES**
   A. Analyze data from assessments to assess needs.
   B. Determine feasibility of mitigation strategies.
   C. Identify barriers to implementation of mitigation strategies.
D. Understand risk acceptance as a strategy.

V. MITIGATION PLANNING
   A. Discuss methods for selecting, approving, and implementing mitigation strategies.
   B. Identify funding sources to implement mitigation strategies.
   C. Analyze examples of hazard mitigation planning templates.

VI. HAZARD MITIGATION PLANS
   A. Review actual hazard mitigation plans from communities in the US.
   B. Perform analyses of hazard mitigation plans against current guidance.
   C. Learn FEMA standards for hazard mitigation planning.

VII. BUSINESS IMPACT ANALYSIS AND CONTINUITY
   A. Discuss private-sector analysis with a focus on business impacts.
   B. Provide an overview of continuity planning.

Q. LABORATORY OUTLINE: None ☒ Yes ☐