<table>
<thead>
<tr>
<th>Program:</th>
<th>Veterinary Public Health - Epidemiology</th>
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<tbody>
<tr>
<td>Degree:</td>
<td>MS</td>
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<tr>
<td>Department:</td>
<td>Veterinary Integrative Biosciences</td>
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<tr>
<td>Contact Name:</td>
<td>Dr. Christine Budke</td>
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<td>Contact Phone:</td>
<td>979-458-2154</td>
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**Outcome** Master degree-program requirements, including theories, concepts, principles, and practice, and develop a coherent understanding of the subject matter through synthesis across courses and experiences.

**Marketable Skills**
- Investigate and describe the determinants and distribution of disease, disability, or health outcomes.
- Convey knowledge of advances and developments in the field of human/animal infectious disease, preventive methods, or treatments for disease.
- Analyze public health information and evaluate results to choose the best solution and solve problems.

**Outcome** Apply subject matter knowledge in a range of contexts to solve problems and make decisions.

**Marketable Skills**
- Be able to read, comprehend, and critically analyze epidemiology and public health-related research presented in peer-reviewed journals.
- Be able to identify and consider the costs and benefits of preventative or control measures in evaluating potential intervention strategies.
- Conceive new ideas and practices with the intention of improving the current state of knowledge or applying it to a specific purpose in innovative ways.

**Outcome** Use a variety of sources and evaluate multiple points of view to analyze and integrate information and to conduct critical, reasoned arguments.

**Marketable Skills**
- Conceive new ideas and practices with the intention of improving the current state of knowledge or applying it to a specific purpose in innovative ways.
- Identify the stakeholders and diverse viewpoints related to public health challenges.
- Understand the implications of new health-related information for both current and future problem solving and decision-making.

**Outcome** Communicate effectively.

**Marketable Skills**
- Prepare concise and logically-written material on various health-related topics to healthcare practitioners, policy makers, and the public.
- Create engaging presentations on the epidemiology of emerging infectious diseases or other public health issues.
- Communicate and explain epidemiology and public health-related research to diverse audiences, including specialists and non-specialists.

**Outcome** Use appropriate technologies to communicate, collaborate, conduct research, and solve problems.
### Marketable Skills

- Obtain epidemiology and public-health information from all relevant sources, including peer-reviewed manuscripts, conference abstracts, and books.
- Have a working knowledge of word processing software, spreadsheets/databases, and statistical software (e.g., Stata, R) for data analysis.
- Compile, code, categorize, calculate, tabulate, or verify health-related information or data.

### Outcome

**Develop clear research plans and conduct valid, data-supported, theoretically consistent, and institutionally appropriate research.**

### Marketable Skills

- Formulate and apply solutions to epidemiological and public health-related research problems and effectively interpret research results
- Understand the relevance of epidemiological and public health-related research in society and the potential impact of this research on individuals, groups, and society.
- Operate in an independent and self-directed manner showing initiative to accomplish clearly defined goals.

### Outcome

**Choose ethical courses of action in research and practice.**

### Marketable Skills

- Be aware and adhere to professional codes of conduct in and beyond the discipline of epidemiology and public health.
- Be sensitive to ethical considerations and situations involving conflicts of interest, appropriate authorship, and intellectual property attributions.
- Understand and apply relevant guidelines for the ethical conduct of research involving people and animals.