

Standing Requirements

## **Program Mission Statement**

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The Wildlife Science program at ERAU Prescott addresses the growing international demand for skilled wildlife biologists. The degree combines coursework in biology, chemistry, communications, management, law and graphic information systems. We provide a superior level of teaching and mentoring, leading to graduates capable of applying the precise knowledge and technical skills to identifying ecological flora and fauna; understanding ecosystem interactions; managing wildlife and people; using computer systems to map organisms to ecosystems; tackle wildlife issues associated with safety problems found in aviation or invasive species; tackle problems related to tracking and preventing poaching; learn to use technology such as UAVs and airplanes; and understand the ethical and legal responsibilities of a wildlife biologist.

We prepare students for careers in industry, public service, academic, and not for profit sectors. We also prepare students for professional certifications, such as that offered by The Wildlife Society (TWS), or entrance into veterinary school. We promote diversity, integrity, teamwork, interdisciplinary collaboration, and the lifelong pursuit of knowledge. We encourage research in conjunction with partners in academia, industry, and government, and the production of meaningful scholarship. We continually seek new opportunities to better serve our students, our university and our community.

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Last Modified: 11/10/2016 01:51:53 PM EDT

# ERAU University Mission Statement

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Our mission is to teach the science, practice and business of aviation and aerospace, preparing students for productive careers<sup>1</sup> and leadership roles in service around the world.<sup>2</sup>

Our technologically enriched, student-centered environment<sup>3</sup> emphasizes learning through collaboration and teamwork,<sup>4</sup> concern for ethical and responsible behavior,<sup>5</sup> cultivation of analytical<sup>6</sup> and management abilities,<sup>7</sup> and a focus on the development of the professional skills needed for participation in a global community.<sup>8</sup> We believe a vibrant future for aviation and aerospace rests in the success of our students. Toward this end, Embry-Riddle is committed to providing a climate that facilitates the highest standards of academic achievement<sup>9</sup> and knowledge discovery,<sup>10</sup> in an interpersonal environment that supports the unique needs of each individual.<sup>11</sup> Embry-Riddle Aeronautical University is the world's leader in aviation and aerospace education. The University is an independent, non-profit, culturally diverse institution providing quality education and research in aviation, aerospace, engineering and related fields leading to associate's, baccalaureate's, master's and doctoral degrees.

## Program Alignment to University Mission

Select all that apply.

- <sup>1</sup>Preparing students for productive careers
- <sup>2</sup>Preparing students for leadership roles in service around the world
- <sup>3</sup>Technologically enriched environment
- <sup>4</sup>Emphasize learning through collaboration and teamwork
- <sup>5</sup>Concern for ethical and responsible behavior
- <sup>6</sup>Cultivate analytical abilities
- <sup>8</sup>Develop the professional skills needed for participation in a global community
- <sup>9</sup>Facilitating the highest standards of academic achievement
- <sup>10</sup>Facilitating knowledge discovery
- <sup>11</sup>Providing an interpersonal environment that supports the unique needs of each individual

Standing Requirements

## Program Outcomes

### FL - Embry-Riddle General Education Competency Set (Copy 1)

#### General Education Competencies

Competency	Mapping
<p>Critical Thinking (DB, PC, WW) The student will apply knowledge at the synthesis level to define and solve problems within professional and personal environments.</p>	<p><b>Embry-Riddle General Education Competency Set:</b> Critical Thinking (DB, PC, WW)</p>
<p>Quantitative Reasoning (DB, PC, WW) The student will demonstrate the use of digitally-enabled technology (including concepts, techniques and tools of computing), mathematics proficiency &amp; analysis techniques to interpret data for the purpose of drawing valid conclusions and solving associated problems.</p>	<p><b>Embry-Riddle General Education Competency Set:</b> Quantitative Reasoning (DB, PC, WW)</p>
<p>Information Literacy (DB, PC, WW) The student will conduct meaningful research, including gathering information from primary and secondary sources and incorporating and documenting source material in his or her writing.</p>	<p><b>Embry-Riddle General Education Competency Set:</b> Information Literacy (DB, PC, WW)</p>
<p>Communication (DB, PC, WW) The student will communicate concepts in written, digital and oral forms to present technical and non-technical information.</p>	<p><b>Embry-Riddle General Education Competency Set:</b> Communication (DB, PC, WW)</p>
<p>Scientific Literacy (DB, PC, WW) The student will be able to analyze scientific evidence as it relates to the physical world and its interrelationship with human values and interests.</p>	<p><b>Embry-Riddle General Education Competency Set:</b> Scientific Literacy (DB, PC, WW)</p>

Cultural Literacy (DB, PC, WW)  
The student will be able to analyze historical events, cultural artifacts, and philosophical concepts.

Embry-Riddle General Education Competency Set:  
Cultural Literacy (DB, PC, WW)

## PC\_BS Wildlife Science Outcome Set

### Outcome

Outcome	Mapping
PC_BSWS_PO_01 Students will be able to apply the scientific method, as well as knowledge of economic and social systems, to problems in wildlife management and conservation.	<b>PC_BS Wildlife Science Outcome Set:</b> PC_BSWS_PO_01, PC_BSWS_PO_02, PC_BSWS_PO_03, PC_BSWS_PO_04, PC_BSWS_PO_05
PC_BSWS_PO_02 Students will be able to use the techniques learned in field exercises to survey and assess biodiversity, with an emphasis on wildlife and plants assemblages.	<b>PC_BS Wildlife Science Outcome Set:</b> PC_BSWS_PO_02
PC_BSWS_PO_03 Students will demonstrate functional scientific communication, including written reports, as well as oral and poster presentations.	<b>PC_BS Wildlife Science Outcome Set:</b> PC_BSWS_PO_03
PC_BSWS_PO_04 Students will understand the ethical and legal responsibilities surrounding working with wildlife.	<b>PC_BS Wildlife Science Outcome Set:</b> PC_BSWS_PO_01, PC_BSWS_PO_02, PC_BSWS_PO_03, PC_BSWS_PO_04
PC_BSWS_PO_05 Students will demonstrate that they can design and execute wildlife-related research.	<b>PC_BS Wildlife Science Outcome Set:</b> PC_BSWS_PO_01, PC_BSWS_PO_02, PC_BSWS_PO_03, PC_BSWS_PO_04

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**PC\_BS Wildlife Science****PC\_BS Wildlife Science**

Courses and Activities Mapped to PC\_BS Wildlife Science Outcome Set

	<b>Outcome</b>				
	PC_BSWS_PO_01 Students will be able to apply the scientific method, as well as knowledge of economic and social systems, to problems in wildlife management and conservation.	PC_BSWS_PO_02 Students will be able to use the techniques learned in field exercises to survey and assess biodiversity, with an emphasis on wildlife and plants assemblages.	PC_BSWS_PO_03 Students will demonstrate functional scientific communication, including written reports, as well as oral and poster presentations.	PC_BSWS_PO_04 Students will understand the ethical and legal responsibilities surrounding working with wildlife.	PC_BSWS_PO_05 Students will demonstrate that they can design and execute wildlife-related research.
<b>Courses and Learning Activities</b>					
BIO 120/120L Foundations of Biology I	<b>I</b>		<b>I</b>		
BIO 121/121L Foundations of Biology II	<b>P</b>	<b>I</b>	<b>I</b>		<b>P</b>
EC 200 An Economic Survey	<b>I</b>			<b>I</b>	
SS 360 Environmental Law	<b>P</b>		<b>M</b>	<b>M</b>	
BIO 200/200L Genetics		<b>I</b>	<b>P</b>		
WX 210 Intro to Geographic Information Systems		<b>I</b>	<b>I</b>		<b>I</b>
BIO 220 Wildlife Management	<b>P</b>	<b>I</b>	<b>I</b>	<b>P</b>	<b>I</b>
BIO 309/309L Principles of Ecology	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>
BIO 420 Wildlife Management Techniques	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>
BIO 240 Natural History of the Region	<b>P</b>	<b>P</b>	<b>P</b>		
BIO 312 Plant Identification		<b>M</b>	<b>M</b>		
BIO 315/315L Ornithology	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>
BIO 318/318L Mammalogy	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>	<b>M</b>
BIO 313 Riparian Ecology	<b>P</b>	<b>M</b>	<b>P</b>		

**Legend :**      **I**    Introduced      **P**    Practiced      **M**    Mastered

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**PC\_BS Wildlife Science**

**PC\_BS Wildlife Science Assessment Schedule**

Courses and Activities Mapped to PC\_BS Wildlife Science Outcome Set

	<b>Outcome</b>				
	PC_BSWS_PO_01 Students will be able to apply the scientific method, as well as knowledge of economic and social systems, to problems in wildlife management and conservation.	PC_BSWS_PO_02 Students will be able to use the techniques learned in field exercises to survey and assess biodiversity, with an emphasis on wildlife and plants assemblages.	PC_BSWS_PO_03 Students will demonstrate functional scientific communication, including written reports, as well as oral and poster presentations.	PC_BSWS_PO_04 Students will understand the ethical and legal responsibilities surrounding working with wildlife.	PC_BSWS_PO_05 Students will demonstrate that they can design and execute wildlife-related research.
<b>Courses and Learning Activities</b>					
2016-2017 Assessment Cycle			✓	✓	✓
2017-2018 Assessment Cycle	✓	✓			
2018-2019 Assessment Cycle	✓	✓			
2019-2020 Assessment Cycle	✓	✓			
2020-2021 Assessment Cycle			✓	✓	✓

**Legend :**    ✓ = Aligned

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