

# 08: Unit 8: Aeromedical Factors: Am I Safe to Fly?

Content Area: **Technology**  
Course(s):  
Time Period: **Full Year**  
Length: **12 Days**  
Status: **Published**

## **General Overview, Course Description or Course Philosophy**

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This is the third course in the four-year Aviation & Aerospace sequence. This course is foundational for both manned and unmanned aviation, and will prepare students to take either of two Federal Aviation Administration tests: the Private Pilot Knowledge Test or the Part 107 Remote Pilot Knowledge Test. Topics include: pre-flight procedures, airspace, radio communications, aviation phraseology, regulations, airport operations, aviation safety, weather, cockpit management, and emergency procedures. This course will also cover small unmanned aircraft performance, ethics, human factors, aeronautical decision-making and judgment, safety protocols, weight and balance, maintenance, aviation weather sources and effects of weather (micro-meteorology) on small unmanned aircraft performance, small unmanned aircraft loading and performance, emergency procedures, crew resource management, and preflight inspection procedures. Students will be provided the opportunity to participate in multiple practice examinations. Students will be prepared to complete the Federal Aviation Administration's Part 107 Remote Pilot Knowledge Test upon completion of this course.

## **OBJECTIVES, ESSENTIAL QUESTIONS, ENDURING UNDERSTANDINGS**

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Objectives, essential questions and enduring understandings are outlined within each unit of study and/or Curricular Calendar.

## **CONTENT AREA STANDARDS**

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| SCI.HS-ETS1-4 | Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem. |
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## **RELATED STANDARDS (Technology, 21st Century Life & Careers, ELA Companion Standards are Required)**

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| LA.RST.11-12.2 | Determine the central ideas, themes, or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms. |
| LA.RST.11-12.4 | Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11-12 texts and topics. |
| LA.RST.11-12.9 | Synthesize information from a range of sources (e.g., texts, experiments, simulations) into  |

a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible.

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| LA.WHST.11-12.2 | Write informative/explanatory texts, including the narration of historical events, scientific procedures/experiments, or technical processes.   |
| LA.WHST.11-12.6 | Use technology, including the Internet, to produce, share, and update writing products in response to ongoing feedback, including new arguments or information.   |
| LA.WHST.11-12.7 | Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.  |
| LA.WHST.11-12.8 | Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the strengths and limitations of each source in terms of the specific task, purpose, and audience; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and overreliance on any one source and following a standard format for citation. |
| LA.WHST.11-12.9 | Draw evidence from informational texts to support analysis, reflection, and research.   |
| CRP.K-12.CRP2   | Apply appropriate academic and technical skills.  |
| CRP.K-12.CRP4   | Communicate clearly and effectively and with reason.  |
| CRP.K-12.CRP6   | Demonstrate creativity and innovation.  |
| CRP.K-12.CRP8   | Utilize critical thinking to make sense of problems and persevere in solving them.  |
| CRP.K-12.CRP11  | Use technology to enhance productivity.   |
| CRP.K-12.CRP12  | Work productively in teams while using cultural global competence.  |

## **STUDENT LEARNING TARGETS**

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Student learning targets are outlined within each unit of study and/or Curricular Calendar.

## **Declarative Knowledge**

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Declarative knowledge is outlined within each unit of study and/or Curricular Calendar.

## **Procedural Knowledge**

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Procedure knowledge is outlined within each unit of study and/or Curricular Calendar.

## **EVIDENCE OF LEARNING**

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## **Formative Assessments**

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Formative assessments are included and outlined in each unit of study.

## **Summative Assessments**

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Summative assessments are included and outlined in each unit of study.

## **RESOURCES (Instructional, Supplemental, Intervention Materials)**

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Materials and resources are outlined in each unit of study.

Link to resources:

[https://drive.google.com/drive/folders/1jqQeWdpwsY3R4Lr1nmYqo07M1T\\_89rbs?usp=sharing](https://drive.google.com/drive/folders/1jqQeWdpwsY3R4Lr1nmYqo07M1T_89rbs?usp=sharing)

## **INTERDISCIPLINARY CONNECTIONS**

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Interdisciplinary connections are outlined in each unit of study.

## **ACCOMMODATIONS & MODIFICATIONS FOR SUBGROUPS**

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Accommodations & Modifications are outlined in each unit of study.