

Standards Correlations

Aircraft Pilot Training II (8732, 36 weeks/280 hours)

| Task | SOL Correlations |
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| Demonstrating Personal Qualities and Abilities | |
| Demonstrate creativity and innovation. | English: 6.1, 6.3, 6.4, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 8.2, 8.4, 8.6, 8.7, 8.11, 8.12, 8.17, 8.18, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, AII.9, COM.1, COM.3, COM.4, COM.5, COM.8, DM.7, DM.1*, DM.10, DM.2*, DM.3*, PS.3*, PS.4*, PS.7*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1 |
| Demonstrate critical thinking and problem solving. | English: 6.1, 6.3, 6.4, 6.5, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.5, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.5, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.10, 6.11, 7.2, 7.3, 7.8, 7.12, 7.13, 8.2, 8.4, 8.8, 8.9, 8.10, 8.11, A.8, A.9, G.1, G.13, G.14, AFDA.3, AFDA.5, AFDA.8, AII.9, AII.10, AII.11, COM.1, COM.3, COM.4, COM.5, COM.8, DM.4, DM.7, DM.1*, DM.2*, DM.3*, DM.9*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1 |
| Demonstrate initiative and self-direction. | English: 6.1, 6.4, 6.6, 6.7, 6.9, 7.1, 7.4, 7.6, 7.7, 7.9, 8.1, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 |
| Demonstrate integrity. | English: 6.1, 7.1, 8.1, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 |
| Demonstrate work ethic. | English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1 |
| Demonstrating Interpersonal Skills | |
| Demonstrate conflict-resolution skills. | English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.4, 8.6, 8.7, 8.9, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, VUS.1 |

| Task | SOL Correlations |
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| Demonstrate listening and speaking skills. | English: 6.1, 6.2, 6.4, 6.6, 7.1, 7.2, 7.4, 7.6, 8.1, 8.2, 8.4, 8.6, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 |
| Demonstrate respect for diversity. | English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, USII.9, VUS.1, VUS.13, WG.1, WHI.1, WHII.1 |
| Demonstrate customer service skills. | English: 6.1, 6.4, 6.7, 7.1, 7.4, 7.7, 8.1, 8.4, 8.7, 9.1, 9.5, 9.6, 10.1, 10.5, 10.6, 11.1, 11.5, 11.6, 12.1, 12.5, 12.6 History and Social Science: CE.1, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 |
| Collaborate with team members | English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 |
| Demonstrating Professional Competencies | |
| Demonstrate big-picture thinking. | English: 6.1, 6.4, 7.1, 7.4, 8.1, 8.4, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.4, CE.12, GOVT.1, GOVT.15, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 |
| Demonstrate career- and life-management skills. | English: 6.1, 6.7, 7.1, 7.7, 8.1, 8.7, 9.1, 9.6, 10.1, 10.6, 11.1, 11.6, 12.1, 12.6 History and Social Science: CE.1, CE.4, CE.12, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 8.4 |
| Demonstrate continuous learning and adaptability. | English: 6.1, 6.4, 6.7, 6.9, 7.1, 7.4, 7.7, 7.9, 8.1, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.3, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: BIO.1, CH.1, LS.1, PH.1, PH.4, PS.1 |
| Manage time and resources. | English: 6.1, 6.2, 6.4, 6.7, 6.9, 7.1, 7.2, 7.4, 7.7, 7.9, 8.1, 8.2, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 7.10, 7.11, 7.12, 7.13, 8.4, 8.11, 8.12, 8.13, 8.14, 8.17, 8.18, A.4, A.5, A.8, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, COM.1, COM.3, COM.5, COM.8 |
| Demonstrate information-literacy skills. | English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.9, 9.2, 9.5, 9.6, 9.8, 10.2, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.8, 7.9, 8.11, 8.12, A.8, A.9, AFDA.3, AFDA.4, AFDA.6, AFDA.7, AFDA.8, DM.8, PS.1*, PS.2*, PS.3*, PS.4*, PS.7*, PS.8*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1 |
| Demonstrate an understanding of information security. | English: 6.1, 6.2, 6.3, 6.4, 6.6, 6.7, 6.8, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.8, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.8, 8.9, 9.1, 9.2, 9.5, 9.6, 9.8, 10.1, 10.2, 10.5, 10.6, 10.8, 11.1, 11.2, 11.5, 11.6, 11.8, 12.1, 12.2, 12.5, 12.6, 12.8 |

| Task | SOL Correlations |
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| | History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: COM.10 |
| Maintain working knowledge of current information-technology (IT) systems. | English: 6.1, 6.3, 6.4, 6.6, 6.9, 7.1, 7.3, 7.4, 7.6, 7.9, 8.1, 8.3, 8.4, 8.6, 8.9 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 7.8, COM.1, COM.2, COM.7, COM.9, COM.10, COM.11, COM.16, COM.18, PS.17 Science: BIO.1, CH.1, ES.1, PH.1 |
| Demonstrate proficiency with technologies, tools, and machines common to a specific occupation. | History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.9, 8.4, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AII.4, AII.7, AII.9, COM.1, COM.7, COM.10, COM.11, COM.12, COM.16 Science: CH.1, ES.1, LS.1, PH.1, PS.1 |
| Apply mathematical skills to job-specific tasks. | English: 6.4, 6.6, 6.7, 7.4, 7.6, 7.7, 8.4, 8.6, 8.7, 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.5, 6.6, 6.12, 6.13, 6.14, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.8, 7.9, 7.11, 7.12, 7.13, 8.4, 8.5, 8.6, 8.8, 8.9, 8.10, 8.11, 8.12, 8.13, 8.14, 8.15, 8.16, 8.17, 8.18, A.1, A.3, A.4, A.5, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AFDA.8, AII.3, AII.7, AII.9, AII.10, COM.1, COM.7 Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1 |
| Demonstrate professionalism. | English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 |
| Demonstrate reading and writing skills. | English: 6.1, 6.6, 6.7, 7.1, 7.6, 7.7, 8.1, 8.6, 8.7, 9.1, 9.5, 9.6, 9.7, 10.1, 10.5, 10.6, 10.7, 11.1, 11.5, 11.6, 11.7, 12.1, 12.5, 12.6, 12.7 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: 6.1, PH.1, PS.1 |
| Demonstrate workplace safety. | English: 6.4, 7.4, 8.4, 9.5, 10.5, 11.5, 12.5 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1 |
| Examining All Aspects of an Industry | |
| Examine aspects of planning within an industry/organization. | History and Social Science: GOVT.16 |
| Examine aspects of management within an industry/organization. | |
| Examine aspects of financial responsibility within an industry/organization. | |

| Task | SOL Correlations |
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| Examine technical and production skills required of workers within an industry/organization. | |
| Examine principles of technology that underlie an industry/organization. | |
| Examine labor issues related to an industry/organization. | History and Social Science: GOVT.16 |
| Examine community issues related to an industry/organization. | History and Social Science: GOVT.16 |
| Examine health, safety, and environmental issues related to an industry/organization. | History and Social Science: GOVT.16 |
| Addressing Elements of Student Life | |
| Identify the purposes and goals of the student organization. | |
| Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult. | |
| Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects. | |
| Identify Internet safety issues and procedures for complying with acceptable use standards. | |
| Exploring Work-based Learning | |
| Identify the types of work-based learning (WBL) opportunities. | |
| Reflect on lessons learned during the WBL experience. | |

| Task | SOL Correlations |
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| Explore career opportunities related to the WBL experience. | |
| Participate in a WBL experience, when appropriate. | |

| Task | SOL Correlations |
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| Describing Aeronautical Decision-making | |
| Define <i>aeronautical decision-making</i> (ADM). | English: 11.3, 11.5, 12.3, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe the critical phases of flight. | English: 11.5, 12.5 |
| Describe pilot-in-command authority and responsibility. | English: 11.5, 12.5 |
| Identify best practices for pilots. | English: 11.5, 12.5 History and Social Sciences: GOVT.3, 16 |
| Describe positive exchange of flight controls. | English: 11.5, 12.5 |
| Describe hazardous attitudes and dangerous tendencies. | English: 11.3, 11.5, 12.3, 12.5 History and Social Sciences: GOVT.3, 16 |
| Describe human factors that affect ADM. | English: 11.5, 12.5 |
| Describe a pilot's healthy response to external pressure. | English: 11.5, 12.5 History and Social Sciences: GOVT.16 |
| Describe the role of judgment in ADM. | English: 11.5, 12.5 |
| Describe stress management. | English: 11.5, 12.5 |
| Describe management of emergency situations. | English: 11.5, 12.5 History and Social Sciences: GOVT.3, 16 |
| Describe regulations related to hazardous operations. | English: 11.5, 12.5 History and Social Sciences: VUS.14, GOVT.7 |
| (Optional) Describe the learning process. | English: 11.5, 12.5 |
| (Optional) Describe the learning process as related to physical skills. | English: 11.5, 12.5 |
| (Optional) Describe laws of learning elements. | English: 11.5, 12.5 |

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| Explaining the Aerodynamics of Flight | |
| Identify the relationship between lift and drag. | English: 11.5, 12.5 Mathematics: AII.3, MA.7 |
| Interpret information on a velocity/load factor chart. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe ground-reference maneuvers. | English: 11.5, 12.5 |
| Understanding Aircraft Systems | |
| Describe adjustable-pitch and constant-speed propellers. | English: 11.5, 12.5 |
| Describe oxygen systems. | English: 11.5, 12.5 |
| Describe the need for oxygen system inspection. | English: 11.5, 12.5 |
| Describe aircraft anti-icing and de-icing. | English: 11.5, 12.5 |
| Describe environmental control systems as related to humidity and illumination control. | English: 11.5, 12.5 |
| Interpreting Flight Instruments | |
| Explain the difference between true north (TN) and magnetic north (MN). | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe airspeed indicators (ASIs). | English: 11.5, 12.5 |
| Describe angle of attack (AOA) indicators. | English: 11.5, 12.5 |
| Calculating Weight and Balance | |
| Calculate weight and balance. | English: 11.5, 12.5 |
| Interpret weight and balance guidelines. | English: 11.5, 12.5 |
| Describe aircraft loading computations. | English: 11.5, 12.5 |
| Describe loading limitations. | English: 11.5, 12.5 |
| Describe performance planning in relation to aircraft loading. | English: 11.5, 12.5 |
| Describing Aircraft Performance | |
| Determine the airspeed for a particular operation. | English: 11.5, 12.5 Mathematics: AII.3 |
| Explain turbulent air penetration. | English: 11.5, 12.5 |
| Determine pressure altitude. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Calculate density altitude. | English: 11.5, 12.5 |

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| | History and Social Sciences: VUS.1, GOVT.1 Mathematics: AII.3 |
| Calculate landing speed and distance. | English: 11.5, 12.5 Mathematics: AII.3 |
| Calculate takeoff speed and distance. | English: 11.5, 12.5 Mathematics: AII.3 |
| (Optional) Interpret information on a performance curve chart. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Identify aircraft glide performance. | English: 11.5, 12.5 |
| Describe how to counteract the effects of wind while taxiing. | English: 11.5, 12.5 |
| Describe takeoff and landing considerations. | English: 11.5, 12.5 |
| Explaining Weather Theory | |
| Describe the effects of temperature. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe the effects of temperature on weather formations. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe precipitation. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe the effects of wind. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Define <i>ceiling</i> , according to the FAA. | English: 11.3, 11.5, 12.3, 12.5 History and Social Sciences: VUS.14, GOVT.7 |
| Identify conditions under which icing may occur. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe turbulent air penetration. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe atmospheric stability. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe thermals and atmospheric stability. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe types of cloud formation and resulting weather. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe dew point and fog formation. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe icing formation and characteristics. | English: 11.5, 12.5 |

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| | History and Social Sciences: VUS.1, GOVT.1 |
| Describe inversion layers. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe jet streams. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe microbursts. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe squall lines. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe formation of thunderstorms and associated hazards. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe turbulence. | English: 11.5, 12.5 |
| Describe windshear. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Accessing Aviation Weather Services | |
| Identify pilot weather resources. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Interpret constant pressure chart and isotachs chart. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Interpret analysis heights and temperature chart. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Interpret information on a convective outlook. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Interpret information on a METAR/SPECI report. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Interpret information on a PIREP. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Interpret information on a convective outlook chart. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe Airman's Meteorological Information (AIRMETs) and Significant Meteorological Information (SIGMETs). | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Interpret information on a SIGMET. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |

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| Interpret information on a significant weather prognostic chart. | English: 11.5, 1.8, 12.5, 12.8 History and Social Sciences: VUS.1, GOVT.1 |
| Interpret information on a surface-analysis chart. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Interpret information on a terminal aerodrome forecast (TAF). | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe a forecast of winds and temperatures aloft (FB). | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Interpret information on an FB. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe a constant pressure analysis chart. | English: 11.5, 1.8, 12.5, 12.8 History and Social Sciences: VUS.1, GOVT.1 |
| Describe a significant weather prognostic chart. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe a surface analysis chart. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe a weather depiction chart. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe in-flight aviation weather advisories. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe severe weather watches (WW). | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe a radar summary chart. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describing Airport Operations | |
| Describe types of approach indicators. | English: 11.5, 12.5 |
| Demonstrate effective communication. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe communication with ATC. | |
| Describe the radio frequencies typically used for aviation communication. | English: 11.5, 12.5 |
| Describe the role of Automatic Dependent Surveillance–Broadcast (ADS-B) in collision avoidance. | English: 11.5, 12.5 |
| Understanding Airspace | |
| Describe VFR weather minimums. | English: 11.5, 12.5 |

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| Describe special use airspace. | English: 11.5, 1.8, 12.5, 12.8 |
| (Optional) Describe VFR-on-top. | English: 11.5, 12.5 |
| Describing Navigation | |
| Describe air navigation. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe aeronautical charts. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Describe the distribution of notices to air missions (NOTAMs). | English: 11.5, 12.5 |
| Plan a course intercept. | English: 11.1, 11.5, 12.1, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Calculate time, speed, distance, course, fuel, and wind. | History and Social Sciences: VUS.1, GOVT.1 Mathematics: AII.3 |
| Calculate wind correction. | History and Social Sciences: VUS.1, GOVT.1 |
| Determine the distance and bearing to a location. | English: 11.5, 12.5 History and Social Sciences: VUS.1, GOVT.1 |
| Plan flight according to regulations. | English: 11.1, 11.5, 12.1, 12.5 History and Social Sciences: VUS.1, 14; GOVT.1, 7, 16 |
| Assess pre-flight calculations while in flight. | English: 11.5, 12.5 |
| (Optional) Interpret information on a low-altitude chart. | English: 11.5, 11.8, 12.5, 12.8 |
| Interpret information on a sectional chart. | English: 11.5, 12.5 |
| Interpret information on a terminal area chart (TAC). | English: 11.5, 11.8, 12.5, 12.8 |
| Interpret information in United States chart supplements. | English: 11.5, 11.8, 12.5, 12.8 |
| (Optional) Interpret information on an instrument approach procedures (IAP) chart. | English: 11.5, 12.5 |
| (Optional) Describe IFR enroute low altitude aeronautical charts. | English: 11.5, 12.5 |
| Describe VOR, distance measuring equipment (DME), and navigation aids. | English: 11.5, 12.5 |
| Interpret readings on an aircraft course and DME indicator. | English: 11.5, 12.5 |
| Explain Global Navigation Satellite System (GNSS). | English: 11.5, 12.5 |

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| Demonstrate dead reckoning. | English: 11.3, 11.5, 12.3, 12.5 |
| Describe the pilotage method of navigation. | English: 11.5, 12.5 |
| Outline the preparation and steps involved in a cross-country flight. | English: 11.5, 11.6, 12.5, 12.6 |
| Identifying Aeromedical Factors | |
| Describe aeromedical factors related to fitness for flight. | English: 11.5, 12.5 |
| Describe hypoxia. | English: 11.5, 12.5 |
| Describe effects of carbon monoxide (CO) poisoning. | English: 11.5, 12.5 |
| Describe night and high-altitude operations. | English: 11.5, 12.5 |
| Describe aeromedical factors related to scanning procedures. | English: 11.5, 12.5 |
| Describe scanning techniques as related to collision avoidance. | English: 11.5, 12.5 |
| Describe the effects of alcohol on the body. | English: 11.5, 12.5 |
| Describe considerations related to prescription and over-the-counter drugs. | English: 11.5, 12.5 |
| Describe regulations related to the use of narcotics, drugs, and intoxicating liquor. | English: 11.5, 12.5 |
| Describe the effects of stress on the body. | English: 11.5, 12.5 |
| Describe in-flight illusions. | English: 11.5, 12.5 |
| Describe hyperventilation as related to cabin pressure and its threat to pilots. | English: 11.3, 11.5, 12.3, 12.5 |
| Describe the physiological effects of scuba diving and flying. | English: 11.5, 12.5 |
| Describe concerns related to night vision. | English: 11.5, 12.5 |
| Define <i>spatial disorientation</i> . | English: 11.3, 11.5, 12.3, 12.5 |
| Describe dehydration and heatstroke. | English: 11.5, 12.5 |