

Aviation • Professional Fixed Wing Pilot Unmanned Aerial System Operator Option

Semester Course Outline • 2022 – 2023

18 Months (4 Semesters) • Revised: 4/4/22

Associate of Applied Science (A.A.S.) Degree • Credits Required for Graduation: 64



First Year – Fall Semester

| Course Number | Course Title | Clock Hours | Credits |
|---|---|-------------|---------|
| FLT 105 | Aviation Meteorology | 45 | 3 |
| FLT 107 | Reciprocating Engine Technology | 28 | 1 |
| FLT 110 | Private Pilot Ground School | 42 | 1.5 |
| FLT 115 | Private Pilot Flight | 84 | 3 |
| FLT 120 | Human Factors in Aviation | 15 | 1 |
| FLT 125 | Private Pilot Check Ride | 14 | .5 |
| MATH 101 or MATH 114 | Intermediate Algebra or College Algebra * | 45 | 3 |
| <ul style="list-style-type: none"> Selected Computer Course (Choose one) CSC 102 – Window Application for Technicians CSC 105 – Computer Software Applications | | 45 | 3 |
| Total | | 318 | 16 |

First Year – Spring Semester

| Course Number | Course Title | Clock Hours | Credits |
|---------------|---------------------------------|-------------|---------|
| AVM 212 | Gas Turbine Engine Technology | 42 | 1.5 |
| FLT 135 | Instrument Ground School | 42 | 1.5 |
| FLT 140 | Instrument Flight | 84 | 3 |
| FLT 145 | Aviation Safety | 30 | 2 |
| FLT 150 | Aviation Law | 30 | 2 |
| FLT 155 | Airspace Systems and Operations | 56 | 2 |
| FLT 160 | Instrument Pilot Check Ride | 14 | .5 |
| FLT 165 | Intro to Unmanned Flight | 28 | 1 |
| Total | | 326 | 13.5 |

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Unmanned Aerial System Operator Option

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Second Year – Fall Semester

| Course Number | Course Title | Clock Hours | Credits |
|---|---------------------------------|-------------|-------------|
| FLT 200 | Aviation Seminar | 60 | 4 |
| FLT 210 | Commercial Cross Country Flight | 126 | 4.5 |
| FLT 220 | Commercial Pilot Ground School | 56 | 2 |
| FLT 225 | Advanced Aircraft Systems | 45 | 3 |
| FLT 230 | Air Traffic Control | 45 | 3 |
| <ul style="list-style-type: none"> Selected Communications Course (Choose one) CMST 101 – Fundamentals of Speech * (CSS 100 – Career Search Strategies .5 credit) COMM 101 – Communications and Career Strategies ENGL 101 – Composition * (CSS 100 – Career Search Strategies .5 credit) | | 45 | 3 |
| Total | | 377 | 19.5 |

Second Year – Spring Semester

| Course Number | Course Title | Clock Hours | Credits |
|--|--|-------------|-----------|
| FLT 235 | Commercial Pilot Check Ride | 14 | .5 |
| FLT 245 | SEL Commercial Maneuvers | 28 | 1 |
| FLT 255 | Multiengine Flight | 28 | 1 |
| FLT 260 | Check Ride Prep | 14 | .5 |
| FLT 265 | Multiengine Pilot Commercial Check Ride | 14 | .5 |
| FLT 277 | Specialized Flight Operations | 28 | 1 |
| FLT 279 | Exploring Professional Aerial Services | 28 | 1 |
| FLT 281 | History and Development of Beyond Visual Line of Sight (BVLOS) | 28 | 1 |
| FLT 283 | Beyond Visual Line of Sight (BVLOS) Ops Lab | 70 | 2.5 |
| <ul style="list-style-type: none"> Selected Behavioral Science Course (Choose one) PSYC 100 – Psychology of Human Relations PSYC 101 – General Psychology * | | 45 | 3 |
| <ul style="list-style-type: none"> Selected Social Science Course (Choose one) ECON 105 – Leadership in the Global Workplace ECON 201 – Principles of Microeconomics I * ECON 202 – Principles of Macroeconomics II * SOC 100 – Introduction to Sociology * | | 45 | 3 |
| Total | | 342 | 15 |

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- Students will select a course in each of the areas listed to meet general education requirements. Courses marked with an asterisk (*) can be transferred directly to the university system. Students should speak with an advisor before doing so.
- Students who select to take transferable communications course CMST 101 or ENGL 101, must also register for CSS 100 – Career Search Strategies for .5 credit. This curriculum is required for all Lake Area Tech graduates and is included in the COMM 101 course but is separate from the university system.

Optional Courses (Dual Credit Students)

FLT 102 – Intro to Unmanned Aerial System 2 Credits 56 Clock Hours

FLT 132 – Advanced Unmanned Aerial System 1 Credit 28 Clock Hours

FLT 295 – Drone Certification 1 Credit 28 Clock Hours