Advising Road Map

Major Academic Planner/ 4-Year Roadmap

Major: B.S. Aviation
Option: Professional Flight
Total Units to Degree: 120

The following roadmap is an advising tool that outlines a path to complete requirements for graduation. This roadmap should be used in consultation with the catalog and the department advisor to identify additional requirements for completing the major (e.g., course grade minimums).

| Fall Semester - Year 1 | |
|---|-------|
| Course | Units |
| Avia 002, Introduction to Aviation | 3 |
| Math 071, Calc. for Business and Aviation | 3 |
| AMS 1A, American Civilization | 6 |
| Engl 001A*, First Year Writing | 3 |
| Semester Total Units: | 15 |

| Spring Semester - Year 1 | |
|---------------------------------------|-------|
| Course | Units |
| GE Area E (to be picked with advisor) | 3 |
| Avia 003, Private Pilot 141 Flight | 2 |
| Phys 002A *, Fundamentals of Physics | 4 |
| AMS 1B, American Civilization | 6 |
| Semester Total: | 15 |

| Fall Semester - Year 2 | |
|---|-------|
| Course | Units |
| Avia 042, Aricraft Systems | 3 |
| Avia 078, Introduction to Aviation Mngnt. | 3 |
| GE Area A1* (to be picked with advisor) | 3 |
| Phys 002B *, Fundamentals of Physics | 4 |
| Avia 062, Instrument Flight Techniques | 3 |
| Semester Total: | 16 |

| Spring Semester - Year 2 | | |
|---|-----------|-------|
| Course | | Units |
| Avia 031, Aircraft Theory ar | nd Design | 3 |
| Avia 043, Propulsion Theory 3 | | 3 |
| Avia 073, Air Traffic Control | | 3 |
| Avia 063, Instrument rating 141 Flight 2 | | 2 |
| GE Area A3* (to be picked with advisor) 3 | | 3 |
| PASS THE WST Semester Total: 14 | | 14 |

| Fall Semester - Year 3 | |
|---|-------|
| Course | Units |
| Avia 091, Aircraft Turbine Engines | 3 |
| Avia 068, Avionics and Airborne Comms. | 3 |
| BUS 090***, Business Statistics | 3 |
| Chem 001A **, General Chemistry | 5 |
| GE Third Area C (to be picked with advisor) | 3 |
| Semester Total: | 17 |

| Spring Semester - Year 3 | |
|---|-------|
| Course | Units |
| Avia 128, Aviation Safety and Security | 3 |
| Avia 173, Aviation Law | |
| Engr 100W**, Engineering Reports | |
| Avia 112, Commercial Professional Pilot 3 | |
| Avia 113, Commercial Pilot 141 Flight | |
| File for graduation Semester Total: | 14 |

| Fall Semester - Year 4 | |
|--|-------|
| Course | Units |
| Tech 198 **, Technology and Civilization | 3 |
| Avia 141, Human Factors in the Avia. Envrnt. | 3 |
| Bus 186***, Professional and Business Ethics | 3 |
| Bus 20 or 20N, Financial Accounting | 3 |
| Avia 193, Aerodynamics | 3 |
| Semester Total: | 15 |

| Spring Semester - Year 4 | |
|---|-------|
| Course | Units |
| Avia 176, Airline Operations and Management | 3 |
| Avia 190, Senior Capstone Seminar | 3 |
| Approved Electives | 2 |
| Avia 194, Pilot Avionics and GA Systems | 3 |
| Avia 110, Aviation Weather | 3 |
| Semester Total: | 14 |

NOTES

^{*}course meets a core GE requirement (student must complete Reflection on College Writing for Engl 1A)

^{**}course meets a SJSU Studies (UDGE) requirement

^{***} Minor in Business: Student can elect BUS 140 and BUS 142 to obtain business minor - exceeds 120 units see advisor

Course List and Pre-requisites

The Bachelor of Science in Aviation Program with option in Professional Flight is designed to prepare graduates with in-depth knowledge and hands-on experience for careers such as Corporate Pilot, Commercial Airline Pilot, and Certified Flight Instructor (CFI).

| Course | Pre-requisites and Co-requisites |
|---|--|
| Avia 2, Introduction to Aviation | none |
| Avia 3, Introduction to Private Pilot Part 141 Flight | Avia 2 |
| Avia 31, Aircraft Theory and Design | Phys 2A, Math 71, Avia 2, Co-req: Phys 2B |
| Avia 42, Aircraft Systems | Phys 2A, Avia 2, Co-req: Phys 2B |
| Avia 43, Propulsion Theory | Phys 2A, Avia 2, Co-req: Phys 2B |
| Avia 62, Instrument Flight Techniques | Avia 2 |
| Avia 63, Instrument Rating Part 141 Flight | Avia 03, Avia 73 |
| Avia 68, Avionics & Airborne Communications | Co-req: Avia 42 |
| Avia 73, Air Traffic Control | Avia 2 |
| Avia 78, Intro to Avia Mgnt | none |
| Avia 91, Aircraft Turbine Engines | Avia 43 |
| Avia 110, Aviation Meteorology | none |
| Avia 112, Professional Commercial Pilot | Avia 31, Avia 42, Avia 62, Avia 91 |
| Avia 113, Commercial Prof. Pilot Part 141 Flight | FAA Private Pilot Certificate, Co-req: Avia 112 |
| Avia 128, Aviation Safety & Security | Avia 2 |
| Avia 141, Human Factors in the Aviation Environment | none |
| Avia 173, Aviation Law | Avia 78 |
| Avia 176, Airline Operations & Management | Avia 78 |
| Avia 177, General Aviation Operations & Mgnt. | Avia 78, Avia 2 |
| Avia 178, Airport Planning & Management | Avia 78 |
| Avia 179, Advanced Airport Planning & Management | Avia 178 |
| Avia 190, Senior Capstone Seminar | Graduating Senior, Graduation Application |
| Avia 193, Aerodynamics | Phys 2A, Math 71, Avia 31 |
| Avia 194, Pilot Avionics and General Aviation Systems | Avia 42, Avia 43 |
| Avia 195, Internship with Avia Industry | Junior Standing and Instructor consent |
| Bus 90, Business Statistics | Math 71 |
| Bus 140, Fund of Operations Management | Upper Division Standing |
| Bus 141, Procurement and Supply Management | Upper Division Standing |
| Bus 142, Total Quality Management | Upper Division Standing or instructor consent |
| Bus 144, Supply Chain Management | Upper Division Standing or instructor consent |
| Bus 145, Global Operations Management | Upper Division Standing or instructor consent |
| Bus 186, Professional and Business Ethics (GE: S) | Pass WST or ENGL/LLD 100A, UD Standing |
| Chem 1A, General Chemistry | High school chemistry or Chem 10 or inst consent |
| Econ 1B, Principles of Economics: Micro | none |
| Engr 100W, Engineering Reports | Pass WST, Upper Division |
| Math 71, Calculus for Business and Aviation | Math 8 or Math 19 |
| Phys 2A, Fundamentals of Physics | Algebra |
| Phys 2B, Fundamentals of Physics | Phys 2A |
| Tech 145, Lean Manufacturing | Bus 140 or 145 or ISE 140 |
| Tech 198, Technology and Civilization (GE: V) | Pass WST, Upper Division Standing |