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LaGrange College

Course Catalog - Aviation

B.S. In Aviation Leadership - B.S. In Aviation Leadership

Type:Major

Through a relationship with Paragon Flight School (Ft. Myers, FL), LaGrange College students may learn to fly private planes, understand ground instrumentation, and begin to learn about commercial flying. In addition, they will learn about leadership in the aviation industry through a grounding in aviation history and economics, airport planning, and strategic aviation leadership. Students will be well-prepared for a successful career as a pilot or as a manager/executive in a regional or national airline.

In addition to the general education requirements, students completing the B.S. degree in Aviation Leadership must also complete an additional 45 credits in the following:

[AVIA 1101](#) - Private Pilot Ground I

[AVIA 1102](#) - Private Pilot Ground II

AVIA 1110 - Introduction to Aviation and Weather

[AVIA 2101](#) - Private Pilot Lab I

AVIA 2110 - Aviation History

AVIA 2120 - Aviation Leadership

[AVIA 2201](#) - Private Pilot Lab II

[AVIA 3101](#) - Instrument Pilot Ground

AVIA 3110 - Aviation Planning & Development

AVIA 3120 - Aviation Economics

[AVIA 4101](#) - Commercial Ground I

[AVIA 4102](#) - Commercial Ground II

[AVIA 4103](#) - Commercial Ground III

[AVIA 4201](#) - Commercial Flight I

[AVIA 4301](#) - Commercial Flight II

[AVIA 4401](#) - Commercial Flight III

[ECON 2200](#) - Principles of Economics

Minor in Aviation - Minor in Aviation

Type:Minor

To earn the minor in Aviation, students must satisfactorily complete the following curriculum.

AVIA 1101 - Private Pilot Ground I

This course is the Private Pilot I ground course that accompanies AVIA2101 flight training. This is the first of the two-semester sequence of Private Pilot Ground School. Private Ground develops the student's aeronautical knowledge required for certification as a Private Pilot with an Airplane Single Engine Land rating. The Private Ground courses covers basic aviation terms and concepts from FAA publications. Some concepts include basic aerodynamics, aircraft systems, flight planning, meteorology, airport operations, navigation, and several other important private pilot concepts.

Grade Basis: P

Credit hours: 1.5

Restrictions:

- Offered annually or as needed.
-

AVIA 1102 - Private Pilot Ground II

This course continues is the Private Pilot I ground course begun in a previous term. Private pilot ground school develops the student's aeronautical knowledge required for certification as a Private Pilot with an Airplane Single Engine Land rating. The Private Ground course covers basic aviation terms and concepts from FAA publications. Some concepts include basic aerodynamics, aircraft systems, flight planning, meteorology, airport operations, navigation, and several other important private pilot concepts.

Grade Basis: P

Credit hours: 1.5

Lecture hours: 1.0

Prerequisites:

- [AVIA 1101](#) - Private Pilot Ground I

Restrictions:

- Corequisite AVIA2201 Private Pilot Lab II
-

AVIA 1110 - Introduction to Aviation and Weather

Course will focus on essential aviation issues related to airports, airlines, and Air Traffic Control. General meteorology and weather-related issues that affect airport, airline and air traffic control operations will also be examined.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

AVIA 2101 - Private Pilot Lab I

This course is the first of two sequential flight training courses that include the requisite aircraft and simulator training and experience required for the FAA Private Pilot practical test.

Grade Basis: P

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 2.0

Restrictions:

- Corequisite AVIA1101 Private Pilot Ground I
- Lab fee

AVIA 2110 - Aviation History

A review of aviation from Kitty Hawk to the space shuttle. Special emphasis will be given to those political and geographical situations which contributed to the development of aviation. The influence of World Wars I and II and the subsequent technological developments in aviation will be stressed. An examination of those aspects of aviation that have contributed to its rapid growth.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

AVIA 2120 - Aviation Leadership

Basic concepts of airline leadership and operations. Applied concepts of business, personnel and leadership as they relate to the airline industry.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

AVIA 2201 - Private Pilot Lab II

This course is the second of two sequential flight training courses that include the requisite aircraft and simulator training and experience required for the FAA Private Pilot practical test.

Grade Basis: P

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 2.0

Prerequisites:

- [AVIA 1101](#) - Private Pilot Ground I
- [AVIA 2101](#) - Private Pilot Lab I

Restrictions:

- Corequisite: AVIA1102 Private Pilot Ground II
 - Lab fee
-

AVIA 2550 - Internship in Aviation

(1-6 Hours) An opportunity for students to gain added early applied experience and insight in approved off-campus settings. Internships consist of at least 40 working hours

per credit hour in areas related to the discipline. Assignments may include selected readings, public presentation, and a final portfolio containing essays, weekly journal, and supporting material. Advisors, program coordinators, department chairs, and the internship coordinator (or designee) must approve the internship before a student begins their work. Internships will be taken as pass/no credit.

Grade Basis: P

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Aviation students only
-

AVIA 3101 - Instrument Pilot Ground

The student will learn the FAA regulations, radio communications, air traffic control procedures, and meteorology as it relates to the instrument flight environment. The student will learn the proper use of radio navigational instruments and will be given study tools to prepare for the FAA Instrument written exam.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [AVIA 2201](#) - Private Pilot Lab II

Restrictions:

- Offered annually or as needed.
-

AVIA 3110 - Aviation Planning and Development

Basic concepts of airport planning and development. Master planning and the legal and statutory framework within which airports operate are discussed, along with the operational, financial, environmental, security, and public service aspects of an airport's existence. Fundamentals of airport configuration are introduced including design requirements for both landside and airside facilities.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [AVIA 2110](#) - Aviation History
 - [AVIA 2120](#) - Aviation Leadership
-

AVIA 3120 - Aviation Economics

An in-depth examination of the economic aspects of the air transportation industry, with microeconomic analysis applied to decision making in the airline, general and corporate aviation, and airport businesses.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ECON 2200](#) - Principles of Economics
-

AVIA 3201 - Instrument Flight Rating

This course will provide basic instrument flight training. The course will require approximately 35 hours and will include a combination of both aircraft and simulator flight training. The student will gain an in-depth knowledge of Air Traffic Control procedures, airway navigation, and both precision and non-precision instrument approaches. This course will prepare the student for the FAA Instrument Practical Test.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [AVIA 3101](#) - Instrument Pilot Ground

Restrictions:

- Offered annually or as needed.
 - Lab fee
-

AVIA 4101 - Commercial Ground I

Commercial Ground I: This is the first of a three course series that covers advanced aeronautical knowledge in aerodynamics, regulations, meteorology, aircraft systems, and airspace operations required for the Commercial Pilot Knowledge and Oral examinations.

Grade Basis: P

Credit hours: 1.0

Lecture hours: 1.0

Prerequisites:

- [AVIA 3101](#) - Instrument Pilot Ground

- [AVIA 3201](#) - Instrument Flight Rating

Restrictions:

- Corequisite AVIA4201 Instrument Flight I
 - Offered annually or as needed.
-

AVIA 4102 - Commercial Ground II

This is the second of a three course series that covers advanced aeronautical knowledge in aerodynamics, regulations, meteorology, aircraft systems, and airspace operations required for the Commercial Pilot Knowledge and Oral examinations.

Grade Basis: P

Credit hours: 1.0

Lecture hours: 1.0

Prerequisites:

- [AVIA 4101](#) - Commercial Ground I
- [AVIA 4201](#) - Commercial Flight I

Restrictions:

- Corequisite AVIA4301 Instrument Flight II
 - Offered annually or as needed
-

AVIA 4103 - Commercial Ground III

This is the third and final course of a series that covers advanced aeronautical knowledge in aerodynamics, regulations, meteorology, aircraft systems, and airspace operations required for the Commercial Pilot Knowledge and Oral examinations.

Grade Basis: P

Credit hours: 1.0

Lecture hours: 1.0

Prerequisites:

- [AVIA 4102](#) - Commercial Ground II
- [AVIA 4301](#) - Commercial Flight II

Restrictions:

- Corequisite AVIA4401 Instrument Flight III
 - Offered annually or as needed
-

AVIA 4201 - Commercial Flight I

This course is the first of three sequential flight training courses that include the requisite aircraft and simulator training and experience required for the FAA Commercial Pilot practical test. During this course, students will complete approximately one third of the aircraft and simulator training and experience hours required in the applicable commercial pilot training course outline (TCO).

Grade Basis: P

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

Restrictions:

- Corequisite AVIA4101 Commercial Ground I
 - Lab fees apply
 - Offered annually or as needed.
-

AVIA 4301 - Commercial Flight II

This course is the second of three sequential flight training courses that include the requisite aircraft and simulator training and experience required for the FAA Commercial Pilot practical test. During this course, students will complete approximately one third of the aircraft and simulator training and experience hours required in the applicable commercial pilot training course outline (TCO).

Grade Basis: P

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

Prerequisites:

- [AVIA 4101](#) - Commercial Ground I
- [AVIA 4201](#) - Commercial Flight I

Restrictions:

- Corequisite AVIA4102 Commercial Ground II
 - Lab fees apply
 - Offered annually or as needed.
-

AVIA 4401 - Commercial Flight III

This course is the third of three sequential flight training courses that include the requisite aircraft and simulator training and experience required for the FAA Commercial Pilot practical test. During this course, students will complete approximately one third

of the aircraft and simulator training and experience hours required in the applicable commercial pilot training course outline (TCO).

Grade Basis: P

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

Prerequisites:

- [AVIA 4102](#) - Commercial Ground II
- [AVIA 4301](#) - Commercial Flight II

Restrictions:

- Corequisite AVIA4103 Commercial Ground III
 - Lab fees apply
 - Offered annually or as needed.
-

AVIA 4510 - Strategic Aviation Leadership

This is the capstone course in the aviation leadership major and will emphasize leadership, development, and planning. The focus will be on people, planet and profit as they relate to the aviation industry as a whole. Sustainability techniques will be studied and applied to each specific segment.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [AVIA 2120](#) - Aviation Leadership
 - [AVIA 3110](#) - Aviation Planning and Development
-

AVIA 4550 - Internship in Aviation Leadership

(1-6 Hours) An opportunity for students to gain added early applied experience and insight in approved off-campus settings. Internships consist of at least 40 working hours per credit hour in areas related to the discipline. Assignments may include selected readings, public presentation, and a final portfolio containing essays, weekly journal, and supporting material. Advisors, program coordinators, department chairs, and the internship coordinator (or designee) must approve the internship before a student begins their work.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Aviation students only
-

AVIA 4601 - CFI Ground

This course provides psychological foundations to understand the concepts of teaching and learning in the airplane. Applies psychology of learning to enable flight and ground instructors to provide for maximum growth and development of their students. In depth study of technical subjects, weather, and airport operations as applied to teaching and learning

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [AVIA 4103](#) - Commercial Ground III
 - [AVIA 4401](#) - Commercial Flight III
-

AVIA 4602 - CFI Flight

This course provides psychological foundations to understand the concepts of teaching and learning in the airplane. Applies psychology of learning to enable flight and ground instructors to provide for maximum growth and development of their students. In depth study of technical subjects, weather, and airport operations as applied to teaching and learning.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

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