AERONAUTICS, B.S.

Saint Louis University's Parks College of Engineering, Aviation and Technology was the first federally certified flight school in the nation, founded by Oliver L. Parks in 1927. Today, Saint Louis University is the only Jesuit university with a flight program, making us a premier institution for flight education. This Jesuit heritage means students learn to make ethical decisions that contribute to their personal and professional goals and allow them to enrich the community in which students live and work.

Program Highlights

Students learn to fly in technically advanced light aircraft: the Diamond DA-20, Piper Archer PA28-181 with Garmin G1000nxi and Piper Seminole PA44. Advanced students further their studies of larger aircraft in a state-of-the-art Canadair Regional Jet-700 simulator. Students receive a holistic education that includes foundational and advanced courses in flight science and aviation management rounded out by the traditional core classes and elective courses.

Additional program highlights include:

- Saint Louis University is the only Jesuit university in the United States to offer aviation science degrees, and students are offered a much more well-rounded curriculum to educate the whole person.
- The flight training is conducted out of St. Louis Downtown Airport which is located between Lambert-St. Louis International Airport and Scott Air Force Base, providing aviation students with a complex and dynamic environment to learn to fly in.
- The test scores achieved by the aviation students on the FAA knowledge and practical tests required for certification or ratings on average exceed the national average test scores.
- The Department of Aviation Science has been granted a Letter of Authorization from the FAA making graduates eligible for a maximum reduction of 500 hours towards the 1,500-hour requirement for the Airline Transport Pilot Certificate.

Curriculum Overview

The flight portion of SLU's Bachelor of Science in Flight Science curriculum is approved by the Federal Aviation Administration (FAA) under Part 141. Graduates of the program will have earned the following FAA certificates and ratings: private pilot certificate, instrument rating, commercial pilot certificate with single and multi-engine ratings and certified flight instructor.

Two concentrations are offered as part of the major: flight science and aviation management.

Flight Science Concentration

Students enrolled in SLU's flight science concentration are encouraged to diversify their educational experience and explore areas outside of their major.

Aviation Management Concentration

The goal of SLU's aviation management concentration is to not only prepare graduates to manage aviation operations but also to prepare them as socially responsible leaders who have a strong foundation in technical skills and are equipped with sufficient breadth of experience in liberal arts and sciences to make a difference in both their professional and personal lives.

The aviation management concentration places a strong emphasis on the safety and business aspects of aviation. From air carrier to manufacturing to airport management, the aviation management curriculum includes the necessary coursework and experience to serve the business and safety needs in aviation.

The aviation management concentration is offered as a residential concentration (on-campus) as well as a distance concentration (online). The concentrations are similar in course content and quality with distance concentration geared toward the working professional.

Restricted Airline Transport Pilot (ATP) Rule

Under the Institutional Authority Program, students who graduate from Saint Louis University are eligible for a transcript endorsement leading to a restricted ATP certificate with either 1,000 or 1,250 hours of flight experience depending on the number of approved credits completed. This also allows students to qualify for the ATP certification at the age of 21 instead of having to wait until age 23. Students who graduate from unapproved institutions require 1,500 hours of flight experience prior to ATP certification.

Saint Louis University has been granted approval to provide a transcript endorsement certifying graduates for a 250-hour or 500-hour reduction towards the ATP Certificate for the Bachelor of Science in Aeronautics with a concentration in flight science or aviation management. To qualify for this reduction, students must complete 30 credits of approved coursework to be eligible for the 250-hour reduction, or complete 60 credits of approved coursework to be eligible for the 500-hour reduction.

Regional Airline Agreements

Students completing the flight science concentration or minor are eligible to participate in one of the "pipeline" or "pathway" programs that Parks College participates in with the following airlines:

- Pilot Pipeline Program – Envoy Air, Inc.
- Aviation Career Pipeline Interview Program – Republic Airways
- CFI Cadet Program – Mesa Airlines

Careers

Benefits of SLU's flight science concentration include several internship and career opportunities. Parks College's Department of Aviation Science provides valuable internship opportunities with Delta Air Lines, Southwest Airlines, JetBlue and other carriers. Other corporate internships are also available. These internships are highly competitive.

SLU's flight science concentration prepares graduates to begin their path in the aviation industry leading to a career as a professional pilot in the airline, corporate and military sectors. After earning their flight instructor certificates, graduates who do not enter a military career track typically seek a flight instructor position to develop their experience for one–three years at which time students are qualified for a position with a regional airline.

The aviation management concentration prepares graduates for entry-level positions within the aviation and space industries, and/or government agencies. Career opportunities for graduates include: management and supervisory positions with commercial airlines, the aircraft/aerospace industry, airports and governmental agencies, as well as positions as contract negotiators, budget analysts, project

administrators, personnel directors and positions in sales, marketing and advertising.

Admission Requirements

Begin Your Application (http://www.slu.edu/apply.php)

Saint Louis University also accepts the Common Application.

Freshman

All applications are thoroughly reviewed with the highest degree of individual care and consideration to all credentials that are submitted. Solid academic performance in college preparatory coursework is a primary concern in reviewing a freshman applicant's file.

To be considered for admission to any Saint Louis University undergraduate program, applicants must be graduating from an accredited high school, have an acceptable HiSET exam score or take the General Education Development (GED) test.

Transfer

Applicants must be a graduate of an accredited high school or have an acceptable score on the GED.

Students who have attempted fewer than 24 semester credits (or 30 quarter credits) of college credit must follow the above freshmen admission requirements. Students who have completed 24 or more semester credits (or 30 quarter credits) of college credit must submit transcripts from all previously attended college(s).

In reviewing a transfer applicant's file, the Office of Admission holistically examines the student's academic performance in college-level coursework as an indicator of the student's ability to meet the academic rigors of Saint Louis University. Where applicable, transfer students will be evaluated on any courses outlined in the continuation standards of their preferred major.

International Applicants

All admission policies and requirements for domestic students apply to international students along with the following:

- Demonstrate English Language Proficiency
- Proof of financial support must include:
  - A letter of financial support from the person(s) or sponsoring agency funding the time at Saint Louis University
  - A letter from the sponsor's bank verifying that the funds are available and will be so for the duration of study at the University
- Academic records, in English translation, of students who have undertaken postsecondary studies outside the United States must include the courses taken and/or lectures attended, practical laboratory work, the maximum and minimum grades attainable, the grades earned or the results of all end-of-term examinations, and any honors or degrees received. WES and ECE transcripts are accepted.

Additional Admission Requirements

In addition to the general admission and matriculation requirements of the University, Parks College aeronautics programs have the following additional requirements:

- GPA: Minimum cumulative 2.50 high school GPA for freshmen applicants and 2.70 college GPA for transfer applicants.
- Coursework: Fifteen total units of high school work are required: three or four units of English; four or more units of mathematics including algebra I and II, geometry and precalculus; three or four units of science including general science, introduction to physical science, earth science, biology, physics or chemistry; two or three units of social sciences including history, psychology or sociology; and three units of electives.

Transfer applicants to the online aviation management concentration applying through the School for Professional Studies must meet the following requirements:

- The student must submit official transcripts from all previous higher education work.
- If a student has never attended college or has less than 15 hours of transferable college credits, they will need to provide official high school or GED transcripts.
- If a student's higher education GPA is less than a 2.5, the student may be considered for probational admission.

Flight Science Concentration and Minor

Enrollment capacity in the flight science concentration may be limited; therefore, early application is strongly encouraged.

In addition to the general admission and matriculation requirements of the University, applicants to any flight science programs must be able to pass a Federal Aviation Administration class II medical examination. It is strongly encouraged that applicants undergo a class I medical examination to ascertain that they are currently capable of passing the medical examination required of a commercial airline pilot.

This physical examination is an absolute prerequisite for flight training and must be taken prior to the student's arrival on campus. Students will not be allowed to participate in any flight training activities without holding a medical certificate. For specific information regarding the examination, visit the FAA online at https://www.faa.gov/pilots/amelocator/.

DA20-C1 Pre-admission Flight Course Student Limitations: Due to safety considerations and aircraft operational limitations, students weighing more than 250 lbs. may be denied training in Saint Louis University aircraft. Specifically, any student that weighs more than 250 lbs. must demonstrate to the Chief or Assistant Chief Instructor that they are capable of meeting the following safety requirements while seated in the pilot seat with the safety belt fastened:

- Must be able to fully deflect the flight controls.
- Must be able to reach the rudder pedal adjustment handle by hand.
- Must not weigh more than 285 lbs.

Student pilots are required to obtain a student pilot certificate prior to solo flight. A student pilot certificate can be applied for with the assistance of the student's flight instructor.

Prior to beginning flight training for the private pilot certificate, instrument rating, the commercial pilot certificate and multi-engine rating, students are required to meet Transportation Security Administration (TSA) requirements.

- For U.S. citizens, the TSA requires flight schools to verify a student's citizenship. This requirement may be met by presenting a current U.S. passport or an official copy of your birth certificate with a government-issued photo ID to your instructor during your initial flight slot.

- For non-U.S. citizens, the TSA requires a background check and TSA approval prior to commencing flight training. For more information on this process, contact the Department of Aviation Science or reference flightschoolcandidates.gov.

Additionally, non-U.S. citizens will be evaluated for their listening comprehension and spoken ability in addition to meeting regular English requirements. Prior to commencing flight instruction, special training will be required for those students found deficient in this evaluation.

All applications are thoroughly reviewed with the highest degree of individual care and consideration to all credentials that are submitted.

Flight School Costs and Requirements

Each flight course requires the purchase of textbooks and other accessories. Textbooks for flight courses and certain pilot accessories are available for purchase at the Center for Aviation Science dispatch office.

In addition to textbooks, you may need to purchase a flashlight, aviation approved headset, E6-B flight computer and approved navigation charts. New students should budget around $175 for textbooks and accessories during the first semester and an additional $300 for a headset.

Flight 2 Transition is mandatory for students entering the flight program and holding an FAA private pilot certificate. Flight 2 Transition does not have a standard flight fee associated with it. The course is charged by the hour for each hour of flight time, instructor time or advanced aviation training devices.

Flight course tuition and fees include enough airplane, simulator and instructor time to complete all course requirements. In addition, a minimal amount of remedial time is built into each flight course. When you have expended your allotted time, you will incur flight course charges at an hourly rate.

The current rates for additional flight school training are as follows:

Resource	Applicable Flight Courses	Hourly Rate
Diamond DA-20 Eclipse	Flight 1, Flight 2, Flight 3, Flight 4 and Flight 6	$135
Piper PA-28 Archer	Flight 4	$195
Piper PA-44 Seminole	Flight 5	$245
Advanced aviation training devices (includes instructor)	All flight courses	$125
Instructor rate	Flight training	$55
Instructor rate	Ground training	$55

Charges for FAA certification flights and FAA review flights are not included in student tuition and fees. Expenses incurred while obtaining FAA certification are charged at the published hourly rates. FAA certification exams are conducted by FAA examiners who do not work for Saint Louis University. Saint Louis University is not responsible for examiner fees. FAA certification must be completed prior to the expiration of the Part 141 graduation certificate or within 60 days.

The above listed hourly rates are subject to change. Contact the Center for Aviation Science for the latest rate information. Assessed charges for remedial training and FAA certification — except examiner fees — may be paid via your university account, credit card, check or cash.

Flight Fees (Beginning with the Fall 2020 Class)

Please note the following:

A prospective student may or may not expect to enroll with a Private Pilot certificate. The two tables below differentiate the cost of flight courses, which are in addition to regular tuition, room and board, etc., for either scenario.

Flight Course	Credits (as charged in the standard tuition charges)	Additional Flight Fees paid by Students
FSCI 1150 Flight 1 (Modules 1 and 2)	3	$8,000
FSCI 1550 Flight 2 (Modules 3 and 4)	3	$8,000
FSCI 2150 Flight 3 (Modules 5 and 6)	3	$8,000
FSCI 2550 Flight 4 (Modules 7 and 8)	3	$8,000
FSCI 3550 Flight 5 (Modules 9 and 10)	3	$8,000
FSCI 3750 Flight 6 (Modules 11 and 12) +	3	$8,000
Total for the Flight Science Concentration		$48,000
Total for the Flight Science Minor (FSCI 3750 Flight Instruction Prep I is not required)		$40,000

The following table of flight fees is for students already in possession of the FAA's Private Pilot certificate when enrolling in either the Flight Science concentration or the Aviation Management concentration with the Flight Science minor. The student will be required to enroll in FSCI 1560 Flight 2 Transition followed by the remaining flight courses in the concentration or minor. Please note that the student is billed monthly as noted in the table below while enrolled in the FSCI 1560 Flight 2 Transition course.

Flight Course	Credits (as charged in the standard tuition charges)	Additional Flight Fees paid by Students
FSCI 1560 Flight 2 Transition‡	1	DA-20 Solo: $135/hour DA-20 Dual: $185/hour Simulator: $105/hour Ground Inst: $45/hour
FSCI 2150 Flight 3 (Modules 5 and 6)	3	$8,000
FSCI 2550 Flight 4 (Modules 7 and 8)	3	$8,000
FSCI 3550 Flight 5 (Modules 9 and 10)	3	$8,000
FSCI 3750 Flight 6 (Modules 11 and 12)	3	$8,000
Total for the Flight Science Concentration §		$32,000 + cost of FSCI 1560

Total for the Flight Science Minor (FSCI 3750 Flight Instruction Prep I is not required) §	$24,000 + cost of FSCI 1560

‡ This course is designed to provide a transition for holders of a Private Pilot Certificate into the curriculum and aircraft and will introduce them to commercial maneuvers. It will include the elements of airmanship, practical weather, and other cross-country skills.

§ The total amount paid varies by student and is billed on a monthly schedule as the student progresses through the course.

Scholarships and Financial Aid

There are two principal ways to help finance a Saint Louis University education:

- **Scholarships:** Scholarships are awarded based on academic achievement, service, leadership and financial need.
- **Financial Aid:** Financial aid is provided in the form of grants and loans, some of which require repayment.

For priority consideration for merit-based scholarships, apply for admission by Dec. 1 and complete a Free Application for Federal Student Aid (FAFSA) by March 1.

For information on other scholarships and financial aid, visit the student financial services office online at https://www.slu.edu/financial-aid (https://www.slu.edu/financial-aid/).

Accreditation

The Department of Aviation Science is accredited by the Aviation Accreditation Board International (AABI).

Aviation Accreditation Board International (AABI)
115 S. 8th Street, Suite 102
Opelika, AL 36801

Learning Outcomes

The Department of Aviation Science is accredited by the Aviation Accreditation Board International (AABI). As such, the department utilizes the AABI Student Learning Outcomes in its continuing assessment process.

The AABI Student Learning Outcomes are:

A. Apply mathematics, science, and applied sciences to aviation related disciplines

B. Analyze and interpret data

C. Work effectively on multi-disciplinary and diverse teams

D. Make professional and ethical decisions

E. Communicate effectively, using both written and oral communication skills

F. Engage in and recognize the need for life-long learning

G. Assess contemporary issues

H. Use the techniques, skills, and modern technology necessary for professional practice

I. Assess the national and international aviation environment

J. Apply pertinent knowledge in identifying and solving problems

K. Apply knowledge of business sustainability to aviation issues.

Student Achievement Data:

- Student Achievement Data - Aviation Management (http://www.slu.edu/parks/pdfs/aabi-student-achievement-data-aviation-mgt-2018-19.pdf)
- Student Achievement Data - Flight Science (http://www.slu.edu/parks/pdfs/aabi-student-achievement-data-flight-science-2018-19.pdf)

Requirements

Flight Science Concentration

Code	Title	Credits
Professional Orientation		
ASCI 1010	Professional Orientation	2
UNIV 1010	Enhancing First-Year Success	1
Jesuit Tradition		
PHIL 1050	Introduction to Philosophy: Self and Reality	3
PHIL 2050	Ethics	3
PSY 1010	General Psychology	3
THEO 1000	Theological Foundations	3
Knowledge		
ASCI 1300	Aviation Weather	3
BTM 2000	Introduction to Business Technology Management	3
OPM 2070	Introduction to Business Statistics	3
PHYS 1350 & PHYS 1365	Aviation Physics and Aviation Physics Lab	4
Mathematics Sequence		**6**
MATH 1200 & MATH 1320	College Algebra and Survey of Calculus	
Written and Oral Communication		
CMM 1200	Public Speaking	3
ENGL 1500	The Process of Composition	3
ENGL 1900	Advanced Strategies of Rhetoric and Research	3
ENGL 2020	Introduction to Literary Study (or higher)	3
Cultural Diversity		
Cultural Diversity Elective [1]		3
Aviation Science		
ASCI 1850	Safety Management Systems	3
ASCI 3100	Air Carrier Operations	3
ASCI 4050	Human Factors	3
ASCI 4250	Professional Ethics and Standards	3
ASCI 4350	Team Resource Management	3
ASCI 4450	Aviation Law	3
Flight Science		
Additional flight fees apply to all flight courses—contact the Department for current rates		
ASCI 2200	Concepts in Aerodynamics	3
ASCI 3010	Jet Transport Systems I	3
ASCI 3020	Jet Transport Systems II	3

ASCI 4012	Introduction to Flight Crew Operations	3
ASCI 4013	Introduction to Flight Crew Operations Laboratory	1
ASCI 4022	Advanced Flight Crew Operations	3
ASCI 4023	Advanced Flight Crew Operations Laboratory	1
FSCI 1150	Flight 1	3
FSCI 1250	Basic Flight Foundations	3
FSCI 1550	Flight 2	3
FSCI 2150	Flight 3	3
FSCI 2250	Instrument Flight Foundations	3
FSCI 2550	Flight 4	3
FSCI 2650	Navigation Foundations	3
FSCI 3550	Flight 5	3
FSCI 3700	Principles of Flight Instruction	3
FSCI 3750	Flight 6	3
Approved Emphasis Area		
Emphasis areas may consist of a minor, certificate program or any other concentrated area of study approved by the Aviation Science Department.		6
Total Credits		**120**

[1] Cultural Diversity elective courses must be selected from an approved Arts & Sciences list. See the description of the Parks College core for more information.

FAA Certificate or Rating under 14 CFR 141

Within the Aviation Science program, the following classes provide training toward a Federal Aviation Administration certificate or rating under 14 CFR 141:

Code	Title	Credits
FSCI 1150	Flight 1 (This course provides 31.0 hours in an aircraft and 5.0 hours in an aircraft training device.)	3
FSCI 1550	Flight 2 (This course provides 47.0 hours in an aircraft and 6.0 hours in an aircraft training device.)	3
FSCI 1560	Flight 2 Transition (This course provides 24.0 hours in an aircraft and 4.5 hours in an aircraft training device.)	1
NOTE: Flight 2 Transition is mandatory for students entering the flight program and holding an FAA private pilot certificate. Flight 2 Transition does not have a standard flight fee associated with it. The course is charged by the hour for each hour of flight time, instructor time or advanced aviation training devices. The fees associated with the FSCI 1560 course are as follows: Diamond DA20 aircraft - Dual: $185/hour and Solo: $135/hour; Advanced aviation training devices (includes instructor) - $125/hour Instructor rate, flight or ground training - $55/hour		
FSCI 2150	Flight 3 (This course provides 41.0 hours in an aircraft and 14.5 hours in an aircraft training device.)	3
FSCI 2550	Flight 4 (This course provides 42.0 hours in an aircraft and 14.5 hours in an aircraft training device.)	3
FSCI 3550	Flight 5 (This course provides 40.0 hours in an aircraft and 10.5 hours in an aircraft training device.)	3
FSCI 3750	Flight 6 (This course provides 14.0 hours in an aircraft.)	3

Flight course tuition and fees include enough airplane, simulator and instructor time to complete all course requirements. In addition, a minimal amount of remedial time is built into each flight course. When you have expended your allotted time, you will incur flight course charges at an hourly rate.

Flight Training Requirements

All flight training must be completed at Saint Louis University. Students with prior flight experience or certification will be evaluated for proficiency at the corresponding flight certification level. Students who do not hold the Private Pilot certificate upon starting the Flight Science concentration or minor are required to take FSCI 1150 Flight 1 and FSCI 1550 Flight 2. Those students who currently hold the Private Pilot certificate are required to take FSCI 1560 Flight 2 Transition.

Global Flight Science Option

A majority of countries across the globe adhere to either Federal Aviation Administration (FAA) or European Aviation Safety Agency (EASA) standards for certification of flight crews. By preparing students to meet both FAA and EASA knowledge requirements, the Global Flight Science Option intends to prepare students for professional flight careers in most countries across the world. Following the freshman year in Madrid, students arrive in St. Louis for the sophomore, junior and senior year. While in St. Louis, students work toward FAA flight ratings including the Private, Instrument and Commercial Multi-Engine pilot. Upon graduation from the Global Flight option in St. Louis, students have the option of returning to Madrid or other global regions for additional transition training leading to international certification.

While in Madrid, students will enroll in ground school coursework and an introduction to European aviation standards and regulations. All coursework is delivered in English while students experience the diversity of a major European metropolitan area. The Global Flight Science option provides the student with a multicultural experience in preparation for careers as globally qualified flight crewmembers.

Aviation Management Concentration

Code	Title	Credits
Professional Orientation		
ASCI 1010	Professional Orientation	2
UNIV 1010	Enhancing First-Year Success	1
Jesuit Tradition		
PHIL 1050	Introduction to Philosophy: Self and Reality	3
PHIL 2050	Ethics	3
PSY 1010	General Psychology	3
THEO 1000	Theological Foundations	3
Knowledge		
ASCI 1300	Aviation Weather	3
BTM 2000	Introduction to Business Technology Management	3
PHYS 1350 & PHYS 1365	Aviation Physics and Aviation Physics Lab	4
Mathematics Sequence		**6**
MATH 1200 & MATH 1320	College Algebra and Survey of Calculus	
Written and Oral Communication		
CMM 1200	Public Speaking	3

ENGL 1500	The Process of Composition	3
ENGL 1900	Advanced Strategies of Rhetoric and Research	3
ENGL 2020	Introduction to Literary Study (or higher)	3
Cultural Diversity		
Cultural Diversity Elective [1]		3
Aviation Science		
ASCI 1850	Safety Management Systems	3
ASCI 3100	Air Carrier Operations	3
ASCI 4050	Human Factors	3
ASCI 4250	Professional Ethics and Standards	3
ASCI 4350	Team Resource Management	3
ASCI 4450	Aviation Law	3
Aviation Management		
ASCI 1510	The Air Transportation System	3
ASCI 2250	Aviation and Airport Security	3
ASCI 2750	Accident Investigation	3
ASCI 3050	Operations & Business Environment of Aviation	3
ASCI 4650	Econ of Air Transportation	3
ASCI 4800	International Aviation	3
ASCI 4900	Senior Seminar (Capstone)	3
ASCI 4915	Internship with Industry	3
ECON 1900	Principles of Economics	3
ENGL 4000	Professional Writing	3
MGT 3000	Management Theory and Practice	3
MGT 3300	Management of Human Resources	3
OPM 2070	Introduction to Business Statistics	3
OPM 3050	Introduction to Management Science and Operations Management	3
Approved Emphasis Area		
Emphasis areas may consist of a minor, certificate program or any other concentrated area of study approved by the Aviation Science Department. Students holding an FAA Mechanic certificate with Airframe and Powerplant (A&P) ratings may take General electives.		15
Total Credits		**121**

[1] Cultural Diversity elective courses must be selected from an approved Arts & Sciences list. See the description of the Parks College core for more information.

Continuation Standards

A student may remain academically eligible to continue coursework in the department's academic concentrations by maintaining a minimum GPA of 2.00 or the equivalent of a letter grade of "C."

Any student receiving a single "C-", "D", "F," or "U" grade in a course with an ASCI or FSCI prefix that is required for graduation in the aviation management or flight science concentration or flight science minor will be required to repeat the course in which the "C-", "D", "F," or "U" grade was received. If the course is a prerequisite to another course in the aviation management or flight science concentration, the student will be required to repeat the course in which the "C-", "D", "F," or "U" grade was received. The student will not be allowed to progress into the subsequent course until a grade of C is achieved in the prerequisite course.

Students enrolled in the flight science minor are allowed two attempts to earn a grade of "C" or better in any of the flight courses that are part of the minor. A student receiving a "C-", "D", "F," or "U" grade in a repeated course is subject to dismissal from the program.

Good Standing

Students are considered to be in good academic standing if they are not on probation (either University probation or program probation) and have not been dismissed or suspended from Saint Louis University.

See Information Concerning University Probation

Students in the flight science concentration or minor may not enroll in a flight course while on University probation. A student previously on University probation will be allowed to enroll in a flight course once their academic status has been listed as being in "good standing."

An appeal of a grade, progression in the concentration or minor, or dismissal from the concentration or minor may be made in accordance with the procedures outlined in the Department of Aviation Science Student Appeal Process, a copy of which can be obtained from the department chairperson or from the Parks College of Engineering, Aviation and Technology Office of the Dean.

Students should be aware that situations such as those described above could jeopardize one's planned graduation date due to the manner in which courses are scheduled each academic year.

Roadmap

Roadmaps are recommended semester-by-semester plans of study for programs and assume full-time enrollment unless otherwise noted.

Courses and milestones designated as critical (marked with !) must be completed in the semester listed to ensure a timely graduation. Transfer credit may change the roadmap.

This roadmap should not be used in the place of regular academic advising appointments. All students are encouraged to meet with their advisor/mentor each semester. Requirements, course availability and sequencing are subject to change.

Aviation Management Concentration

Course	Title	Credits
Year One		
Fall		
ASCI 1010	Professional Orientation	2
ASCI 1300	Aviation Weather	3
ENGL 1500	The Process of Composition	3
MATH 1200	College Algebra	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
UNIV 1010	Enhancing First-Year Success	1
	Credits	**15**
Spring		
ASCI 1510	The Air Transportation System	3
ASCI 1850	Safety Management Systems	3
ENGL 1900	Advanced Strategies of Rhetoric and Research	3
MATH 1320	Survey of Calculus	3
PHIL 2050	Ethics	3
	Credits	**15**

Year Two		
Fall		
ASCI 2250	Aviation and Airport Security	3
ECON 1900	Principles of Economics	3
PHYS 1350 & PHYS 1365	Aviation Physics and Aviation Physics Lab	4
PSY 1010	General Psychology	3
THEO 1000	Theological Foundations	3
	Credits	**16**
Spring		
ASCI 2750	Accident Investigation	3
BTM 2000	Introduction to Business Technology Management	3
CMM 1200	Public Speaking	3
ENGL 2xxx	Any 2000-level or higher English course	3
Elective	Approved Emphasis Area †	3
	Credits	**15**
Year Three		
Fall		
ASCI 3050	Operations & Business Environment of Aviation	3
ASCI 4050	Human Factors	3
MGT 3000	Management Theory and Practice	3
OPM 2070	Introduction to Business Statistics	3
Elective	Approved Emphasis Area †	3
	Credits	**15**
Spring		
ASCI 3100	Air Carrier Operations	3
ASCI 4915	Internship with Industry	3
MGT 3300	Management of Human Resources	3
Elective	Approved Emphasis Area †	3
Elective	Approved Emphasis Area †	3
	Credits	**15**
Year Four		
Fall		
ASCI 4250	Professional Ethics and Standards	3
ASCI 4450	Aviation Law	3
ENGL 4000	Professional Writing	3
OPM 3050	Introduction to Management Science and Operations Management	3
Elective	Approved Emphasis Area †	3
	Credits	**15**
Spring		
ASCI 4350	Team Resource Management	3
ASCI 4650	Econ of Air Transportation	3
ASCI 4800	International Aviation	3
ASCI 4900	Senior Seminar	3
Elective	Cultural Diversity ‡	3
	Credits	**15**
	Total Credits	**121**

† Course must be approved by the department chairperson.

‡ Course must be approved as culturally diverse by Parks College.

Aviation Management Concentration with Flight Science Minor

Students in the traditional or online aviation management program may enroll in the flight science minor. The approved emphasis area electives are substituted for as noted below for the flight science minor. Enrollment in the flight science minor must be approved by the department chairperson.

Course	Title	Credits
Year One		
Fall		
ASCI 1010	Professional Orientation	2
ASCI 1300	Aviation Weather	3
ENGL 1500	The Process of Composition	3
FSCI 1150	Flight 1 †	3
FSCI 1250	Basic Flight Foundations †	3
MATH 1200	College Algebra	3
UNIV 1010	Enhancing First-Year Success	1
	Credits	**18**
Spring		
ASCI 1510	The Air Transportation System	3
ASCI 1850	Safety Management Systems	3
ENGL 1900	Advanced Strategies of Rhetoric and Research	3
FSCI 1550	Flight 2 †	3
MATH 1320	Survey of Calculus	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
	Credits	**18**
Year Two		
Fall		
ASCI 2250	Aviation and Airport Security	3
ECON 1900	Principles of Economics	3
FSCI 2150	Flight 3 †	3
FSCI 2250	Instrument Flight Foundations †	3
PHYS 1350 & PHYS 1365	Aviation Physics and Aviation Physics Lab	4
	Credits	**16**
Spring		
ASCI 2750	Accident Investigation	3
FSCI 2550	Flight 4	3
FSCI 2650	Navigation Foundations	3
PHIL 2050	Ethics	3
PSY 1010	General Psychology	3
	Credits	**15**
Year Three		
Fall		
ASCI 3050	Operations & Business Environment of Aviation	3
ASCI 4050	Human Factors	3
CMM 1200	Public Speaking	3
FSCI 3550	Flight 5	3

MGT 3000	Management Theory and Practice	3
OPM 2070	Introduction to Business Statistics	3
	Credits	**18**
Spring		
ASCI 3100	Air Carrier Operations	3
ASCI 4915	Internship with Industry	3
ENGL 2xxx	Any 2000-level or higher English course	3
MGT 3300	Management of Human Resources	3
THEO 1000	Theological Foundations	3
	Credits	**15**
Year Four		
Fall		
ASCI 4250	Professional Ethics and Standards	3
ASCI 4450	Aviation Law	3
BTM 2000	Introduction to Business Technology Management	3
ENGL 4000	Professional Writing	3
OPM 3050	Introduction to Management Science and Operations Management	3
	Credits	**15**
Spring		
ASCI 4350	Team Resource Management	3
ASCI 4650	Econ of Air Transportation	3
ASCI 4800	International Aviation	3
ASCI 4900	Senior Seminar	3
Elective	Cultural Diversity ‡	3
	Credits	**15**
	Total Credits	**130**

† Fulfills credit requirement of Approved Emphasis Area Electives

‡ Course must be approved as culturally diverse by Parks College.

Program Notes

The flight science minor requires the student to take 24 credits of flight science courses. Of this amount, 15 credits fulfill the approved emphasis area electives. The remaining nine credits add to the total number of credits required to graduate with the Bachelor of Science in Aeronautics, aviation management concentration with the flight science minor. The total number of credits for this track is 130.

The Department of Aviation Science requires that the students in the aviation management concentration with the flight science minor are to be enrolled in conventional, in-class courses as noted on this roadmap.

Aviation Management Concentration with other Minor

Students may enroll in a minor offered by any academic department at Saint Louis University. Note: The student is required to meet the pre-requisite(s) of the minor degree program and if the minor is not offered via online courses, the student must attend those courses in person. The addition of a minor to a student's registration can increase the number of credits earned by the student upon graduation. The approved emphasis area electives are substituted for as noted below for students taking a minor degree program outside of the Department of Aviation Science. Note: The total number of credits earned by the student at graduation will be dependent upon the number of credits required by the minor degree program above the fifteen approved emphasis area electives required in the aviation management concentration.

Course	Title	Credits
Year One		
Fall		
ASCI 1010	Professional Orientation	2
ASCI 1300	Aviation Weather	3
ENGL 1500	The Process of Composition	3
MATH 1200	College Algebra	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
UNIV 1010	Enhancing First-Year Success	1
	Credits	**15**
Spring		
ASCI 1510	The Air Transportation System	3
ASCI 1850	Safety Management Systems	3
ENGL 1900	Advanced Strategies of Rhetoric and Research	3
MATH 1320	Survey of Calculus	3
PHIL 2050	Ethics	3
	Credits	**15**
Year Two		
Fall		
ASCI 2250	Aviation and Airport Security	3
ECON 1900	Principles of Economics	3
PHYS 1350 & PHYS 1365	Aviation Physics and Aviation Physics Lab	4
PSY 1010	General Psychology	3
THEO 1000	Theological Foundations	3
	Credits	**16**
Spring		
ASCI 2750	Accident Investigation	3
BTM 2000	Introduction to Business Technology Management	3
CMM 1200	Public Speaking	3
ENGL 2xxx	Any 2000-level or higher English course	3
Elective	Minor Requirement †	3
	Credits	**15**
Year Three		
Fall		
ASCI 3050	Operations & Business Environment of Aviation	3
ASCI 4050	Human Factors	3
MGT 3000	Management Theory and Practice	3
OPM 2070	Introduction to Business Statistics	3
Elective	Minor Requirement †	3
	Credits	**15**
Spring		
ASCI 3100	Air Carrier Operations	3
ASCI 4915	Internship with Industry	3
MGT 3300	Management of Human Resources	3
Elective	Minor Requirement †	3

Elective	Minor Requirement †	3
	Credits	**15**
Year Four		
Fall		
ASCI 4250	Professional Ethics and Standards	3
ASCI 4450	Aviation Law	3
ENGL 4000	Professional Writing	3
OPM 3050	Introduction to Management Science and Operations Management	3
Elective	Minor Requirement †	3
	Credits	**15**
Spring		
ASCI 4350	Team Resource Management	3
ASCI 4650	Econ of Air Transportation	3
ASCI 4800	International Aviation	3
ASCI 4900	Senior Seminar	3
Elective	Cultural Diversity ‡	3
	Credits	**15**
	Total Credits	**121**

† Minor must be approved by the department chairperson.

‡ Course must be approved as culturally diverse by Parks College.

Flight Science Concentration

Course	Title	Credits
Year One		
Fall		
ASCI 1010	Professional Orientation	2
ASCI 1300	Aviation Weather	3
FSCI 1150	Flight 1	3
FSCI 1250	Basic Flight Foundations	3
MATH 1200	College Algebra	3
UNIV 1010	Enhancing First-Year Success	1
	Credits	**15**
Spring		
ASCI 1850	Safety Management Systems	3
ENGL 1500	The Process of Composition	3
FSCI 1550	Flight 2	3
MATH 1320	Survey of Calculus	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
	Credits	**15**
Year Two		
Fall		
ASCI 2200	Concepts in Aerodynamics	3
FSCI 2150	Flight 3	3
FSCI 2250	Instrument Flight Foundations	3
PHIL 2050	Ethics	3
PHYS 1350	Aviation Physics (PHYS 1365)	4
	Credits	**16**
Spring		
CMM 1200	Public Speaking	3
ENGL 1900	Advanced Strategies of Rhetoric and Research	3
FSCI 2550	Flight 4	3
FSCI 2650	Navigation Foundations	3
PSY 1010	General Psychology	3
	Credits	**15**
Year Three		
Fall		
ASCI 3010	Jet Transport Systems I	3
ASCI 4050	Human Factors	3
BTM 2000	Introduction to Business Technology Management	3
FSCI 3550	Flight 5	3
THEO 1000	Theological Foundations	3
	Credits	**15**
Spring		
ASCI 3020	Jet Transport Systems II	3
ASCI 3100	Air Carrier Operations	3
FSCI 3700	Principles of Flight Instruction	3
FSCI 3750	Flight 6	3
	Credits	**12**
Year Four		
Fall		
ASCI 4012	Introduction to Flight Crew Operations	3
ASCI 4013	Introduction to Flight Crew Operations Laboratory	1
ASCI 4250	Professional Ethics and Standards	3
ASCI 4450	Aviation Law	3
ENGL 2xxx	Any 2000-level or higher English course	3
OPM 2070	Introduction to Business Statistics	3
	Credits	**16**
Spring		
ASCI 4022	Advanced Flight Crew Operations	3
ASCI 4023	Advanced Flight Crew Operations Laboratory	1
ASCI 4350	Team Resource Management	3
Elective	Cultural Diversity †	3
Elective	Approved Emphasis Area ‡	4
	Credits	**14**
	Total Credits	**118**

† Course must be approved as culturally diverse by Parks College.

‡ Course must be approved by the department chairperson.

2+SLU

2+SLU programs are formal transfer agreements for students seeking an associate degree at a partner institution.

- Aviation Management-Aeronautics, B.S.(STLCC 2+SLU)