



Academic Notes

July 30, 2012

AN 2011-2012

ACADEMIC NOTES PUBLICATION SCHEDULE SUMMER 2012

Below is the publication schedule for *Academic Notes* through August 13, 2012. All submissions for inclusion in *Academic Notes* are due in the Office of Academic Affairs no later than 11:00 a.m. on the Deadline for Items date shown below. Submissions must be in hard copy along with an email, zip drive, or CD with the same information. The electronic version must be formatted either in Word with pages with signatures scanned and inserted as a picture OR PDF saved as text and image. (Do NOT send PDF just saved as an image.) Information submitted to *Academic Notes* that is not accompanied by an electronic version or that is incomplete or unusable will be returned to the appropriate office. *Academic Notes* is available using Acrobat Reader at http://www.indstate.edu/academicaffairs/academic_notes.htm. During the summer months, *Academic Notes* is published every other week. If you have questions or know of any discrepancies, please contact Yvonne Russell, Academic Affairs, extension 3662.

ACADEMIC NOTES PUBLICATION SCHEDULE SUMMER 2012

<u>Deadline for Items</u>	<u>Issue Date</u>
August 1	August 13

CURRICULUM

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UNDERGRADUATE PROPOSALS

COURSE REVISIONS

COLLEGE OF TECHNOLOGY: Aviation Technology

AVT 142 - Private Pilot Flight I

1 credits

An introduction to the ISU flight training program. Students must enroll in this course while pursuing the private pilot certificate.

Co-requisites: AVT 141 or consent of instructor

Note: Students must pay an additional fee for this course.

Course Completion: Course completion requirements: minimum of 20 total flight hours and a solo endorsement.

Change description and remove prerequisites to:

AVT 142 - Private Pilot Flight I

1 credits

An introduction to the ISU Flight Training Program.

Note: Students must enroll in this course while pursuing the Private Pilot Certificate.

Students must pay an additional fee for this course.

Course Completion: Minimum of 20 total flight hours or a solo endorsement.

S-U Grading

Effective term: Spring 2013

AVT 143 - Introduction to Flight

1 credits

An introduction to the ISU flight training program for Aviation Management majors.

Course Completion: Minimum 5 instruction hours in the department's flight training laboratory or minimum 5 instruction hours in an aircraft.

Add prerequisites to:

AVT 143 - Introduction to Flight

1 credits

An introduction to the ISU flight training program for Aviation Management majors.

Course Completion: Minimum 5 instruction hours in the department's flight training laboratory or minimum 5 instruction hours in an aircraft.

Prerequisite: Successful completion of AVT 141 or concurrent enrollment or consent of instructor.

S-U Grading

Effective term: Spring 2013

AVT 144 - Private Pilot Flight II

1 credits

Students must enroll in this course while pursuing the private pilot certificate.

Prerequisites: AVT 142 or consent of instructor.

Course Completion: Course completion requirements: Private pilot certificate or 60 total flight

hours.

Change description to:

AVT 144 - Private Pilot Flight II

1 credits

Students must enroll in this course while pursuing the private pilot certificate.

Prerequisites: AVT 142 or consent of instructor.

Note: Students must pay an additional laboratory fee for this class.

Course Completion: Course completion requirements: Private pilot certificate.

S-U Grading

Effective term: Spring 2013

AVT 150 - Foundations of Technology: Introduction to Aerospace Technology

3 credits

This course focuses on the development of appropriate knowledge and skills in regard to introductory engineering and technology. Specifically this introductory technology and engineering course explores the application of aerospace knowledge and skills while enriching technological and engineering-based problem solving skills.

Change of title and description to:

AVT 150 - Foundations of Technology: Introduction to Aviation Technology

3 credits

This course focuses on the development of appropriate knowledge and skills in regard to introductory engineering and technology. Specifically this introductory technology and engineering course explores the application of aviation knowledge and skills while enriching technological and engineering-based problem solving skills.

A-F Grading

Effective term: Spring 2013

AVT 205 - General Aviation Operations

3 credits

The organization and operation of small airport aviation facilities are discussed. Included are flight line operations, aircraft maintenance, sales, administration, state and federal regulations, and community relations.

Prerequisites: AVT 141 or consent of instructor.

Remove prerequisites to:

AVT 205 - General Aviation Operations

3 credits

The organization and operation of small airport aviation facilities are discussed. Included are flight line operations, aircraft maintenance, sales, administration, state and federal regulations, and community relations.

A-F Grading

Effective term: Spring 2013

AVT 244 - Instrument Flight II

1 credits

Students must enroll in this course while pursuing the instrument rating.

Prerequisites: AVT 242 or consent of instructor.

Note: Students must pay an additional laboratory fee for this class.

Course Completion: Instrument rating or 145 total flight hours, of which 20 hours total simulator time may be applied.

Change description to:

AVT 244 - Instrument Flight II

1 credits

Students must enroll in this course while pursuing the instrument rating.

Note: Students must pay an additional laboratory fee for this class.

Prerequisites: AVT 242 or consent of instructor.

Course Completion: Instrument rating or 145 total flight hours, of which 20 hours total simulator time may be applied; and successfully pass the FAA Instrument Rating Knowledge Test.

S-U Grading

Effective term: Spring 2013

AVT 301 - Aerospace History

3 credits

The highlights, key events, and technological advancements of the aerospace industry. The historic coverage concentrates on the human effort to fly within the earth's atmosphere and beyond.

Change title and description to:

AVT 301 - Aviation History

3 credits

The highlights, key events, and technological advancements of the aviation industry. The historic coverage concentrates on the human effort to fly within the earth's atmosphere and beyond.

A-F Grading

Effective term: Spring 2013

AVT 307 - Airport Operations

3 credits

The planning, development, and operation of a modern airport including airport systems, facility planning, federal and state regulations, environmental policy, operational safety, maintenance, and public relations.

Prerequisites: AVT 205 or consent of instructor.

Change description and remove prerequisites to:

AVT 307 - Airport Operations

3 credits

The planning, development, and operation of a modern airport including airport systems, federal and state regulations, environmental policy, operational safety, maintenance, and public relations.

A-F Grading

Effective term: Spring 2013

AVT 313 - Beechcraft King Air 200/B200 Systems

3 credits

An introduction to the Beechcraft King Air 200/B200. All aircraft systems are covered as well as operating limitations, checklist, crew resource management skills, and standard operating procedures.

Prerequisites: Successful completion of or concurrent enrollment in AVT 311 and 325, hold an

instrument rating, or consent of instructor.

Change prerequisites to:

AVT 313 - Beechcraft King Air 200/B200 Systems

3 credits

An introduction to the Beechcraft King Air 200/B200. All aircraft systems are covered as well as operating limitations, checklist, crew resource management skills, and standard operating procedures.

Prerequisites: Successful completion of or concurrent enrollment in AVT 311 and AVT 325, and hold an instrument rating, or consent of instructor.

A-F Grading

Effective term: Spring 2013

AVT 327 - Aircraft Dispatch Theory

3 credits

Introduction to the duties and responsibilities of a certified aircraft dispatcher. Preparation and understanding of the skills required to successfully complete the FAA aircraft dispatcher written examination.

Prerequisites: AVT 141 and 307 or consent of the instructor.

Change prerequisites to:

AVT 327 - Aircraft Dispatch Theory

3 credits

Introduction to the duties and responsibilities of a certified aircraft dispatcher. Preparation and understanding of the skills required to successfully complete the FAA aircraft dispatcher written examination.

Prerequisites: AVT 141 and 307 or consent of the instructor.

A-F Grading

Effective term: Spring 2013

AVT 341 - Commercial Pilot Theory

3 credits

Course includes advanced aircraft performance and charts, multi-engine theory and operations, weight and balance, commercial operations, commercial flight publications and regulations, flight planning, and basic aerobatic and tailwheel operations.

Prerequisites: AVT 243 or consent of instructor.

Change prerequisites to:

AVT 341 - Commercial Pilot Theory

3 credits

Course includes advanced aircraft performance and charts, multi-engine theory and operations, weight and balance, commercial operations, commercial flight publications and regulations, flight planning, and basic aerobatic and tailwheel operations.

Prerequisites: AVT 243 or consent of instructor.

A-F Grading

Effective term: Spring 2013

AVT 362 - Glider Flying

2 credits

Principles and theories of glider flying including ground and flight instruction leading to an FAA glider rating, which is required for course completion.

Prerequisites: Private pilot certificate or consent of instructor.

Change description to:

AVT 362 - Glider Flying

2 credits

Principles and theories of glider flying including ground and flight instruction leading to an FAA glider rating.

Prerequisites: Private pilot certificate or consent of instructor.

Course Completion: FAA glider rating.

Note: Students must pay an additional fee for this course.

S-U Grading

Effective term: Spring 2013

AVT 363 - Mountain Flying

2 credits

Principles and theories of mountain flying including actual mountain flying expedition.

Prerequisites: Private pilot certificate, and 100 hours flight time, or consent of instructor.

Change description and prerequisites to:

AVT 363 - Mountain Flying

2 credits

Principles and theories of mountain flying including actual mountain flying expedition.

Prerequisites: AVT 243, private pilot certificate, and 100 total flight hours, or consent of instructor.

Note: Students must pay an additional laboratory fee for this class.

S-U Grading

Effective term: Spring 2013

AVT 365 - Advanced Tailwheel Aircraft Flying

2 credits

Description

Principles and theories of flight related to tailwheel or conventional gear aircraft, including ground and flight instruction, requiring a minimum of ten total flight hours in tailwheel aircraft and satisfactory completion of a tailwheel proficiency check.

Prerequisites: Private pilot certificate, tailwheel endorsement, recommendation of chief flight instructor, or consent of instructor.

Change description to:

AVT 365 - Advanced Tailwheel Aircraft Flying

2 credits

Principles and theories of flight related to tailwheel or conventional gear aircraft, including ground and flight instruction, requiring a minimum of ten total flight hours in tailwheel aircraft and satisfactory completion of a tailwheel proficiency check.

Note: Students must pay an additional fee for this course.

Prerequisites: Private pilot certificate, tailwheel endorsement, recommendation of chief flight instructor, or consent of instructor.

S-U Grading

Effective term: Spring 2013

AVT 413 - Regional Jet Aircraft Systems

3 credits

This class provides an in-depth study of the complex systems found on regional jet aircraft. It provides a review of all primary systems, operations, checklists, and procedures, and offers hands-on experience with a computer based flight management systems trainer.

Prerequisites: Senior standing or consent of instructor.

Change prerequisites to:

AVT 413 - Regional Jet Aircraft Systems

3 credits

This class provides an in-depth study of the complex systems found on regional jet aircraft. This class provides a review of all primary systems, operations, checklists, and procedures, and offers hands-on experience with a computer based flight management systems trainer.

Prerequisites: Junior standing.

A-F Grading

Effective term: Spring 2013

AVT 430 - Aviation Career Planning

1 credits

Career planning as applicable to students pursuing either a flight or management career in the aviation industry.

Prerequisites: Junior standing or consent of instructor.

Change prerequisites to:

AVT 430 - Aviation Career Planning

1 credits

Career planning as applicable to students pursuing either a flight or management career in the aviation industry.

Prerequisites: 2nd semester junior standing or consent of instructor.

A-F Grading

Effective term: Spring 2013

AVT 442 - Flight Instructor Flight

1 credits

The flight experience as required by the FAA for certification as a flight instructor and an instrument flight instructor.

Prerequisites: AVT 344 or consent of instructor.

Course Completion: Course completion requirements: chief flight instructor I, chief flight instructor II certificates/ratings, multi-engine rating, tailwheel, and severe unusual attitude recovery log-book endorsements.

Change prerequisites to:

AVT 442 - Flight Instructor Flight

1 credits

The flight experience as required by the FAA for certification as a flight instructor and an instrument flight instructor.

Prerequisites: AVT 344 or consent of instructor.

Course Completion: Course completion requirements: certified flight instructor (CFI) certificate and certified instrument flight instructor (CFII) rating.

S-U Grading

Effective term: Spring 2013

AVT 473 - Topics for Professional Pilot Majors

1-6 credits

Topics not usually presented in aviation courses. Topic titles, credit, course outline, and content will be arranged by faculty member(s) involved.

Prerequisites: Junior standing or consent of instructor.

Repeatable: Repeatable with a change in course content up to a maximum of 6 hours.

Change title and description to:

AVT 473 – Special Problems in Aviation

1-6 credits

Problems relating to specific topics within the aviation industry.

Prerequisites: Consent of instructor.

Repeatable: May be repeated with a change in course content up to a maximum of 6 hours.

A-F Grading

Effective term: Spring 2013

COURSE BANKING

COLLEGE OF TECHNOLOGY: Aviation Technology

AVT 245 - Instrument/Commercial Theory II

3 credits

An introduction to commercial flight operations. Course includes advanced aircraft performance and charts, aircraft pressurization systems, weight and balance, commercial operations, commercial/instrument flight publications and regulations, and advance flight planning.

Prerequisites: AVT 241 or consent of instructor.

A-F Grading

Effective term: Spring 2013

AVT 367 - Multi-Engine Flight

2 credits

Flight and ground instruction required for the multi-engine rating. A multi-engine rating is required for completion of this course.

Prerequisites: Private pilot certificate.

S-U Grading

Effective term: Spring 2013

AVT 499 - Airport Manager Certification

3 credits

Advance study of the business management practices of airports and its framework conditions. The course prepares students to complete the Association of Airport Executives Certified Member Program examination.

Prerequisites: AVT 491 or consent of instructor.

A-F Grading

Effective term: Spring 2013

CORRECTIONS

The following corrections are reflected in *bold and italics:

GRADUATE APPROVALS

NEW COURSES

COLLEGE OF TECHNOLOGY: Built Environment

SFTY 627 - Safe Transportation and Management of Hazardous Materials

3 credits

This course explores standards and practices for safe handling, storage, and transportation of hazardous materials. Topics covered include storage and transport technologies, exposure protection, and application of the OSHA Hazard Communication standard.

A-F Grading

Effective term: Fall 2012