



**AVN 2000**  
**Introduction to the Aviation Industry**  
**Fall Semester 2016**

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Mr. Rottler's Office Hours: Thursdays 1:30-3:30PM and other times by appointment.

Ryan Dittoe's Office Hours: By appointment

Class Time: Monday, Wednesday, Friday, 10:20-11:15AM OR  
11:30AM-12:25PM

Credit Hours: 3.0

**Course Description:**

Introduction to the aviation industry, including its elements, components, and structures. Topics include: aircraft, airports, airspace, a survey of industry segments and purposes, and careers and career paths.

**Course Goals:**

- Students will discover the origins of the aviation industry as we know it, from its early beginnings to the introduction of the Boeing 787 and Airbus A380.
- At the end of the course, every student will have a basic understanding of the various facets of the aviation industry, including airlines, general aviation, airports, regulations as well as aerodynamics, and its important role in local, regional, national and international life. This understanding of the fundamentals of aviation will play a critical role in future Aviation courses or, for those that pursue other fields, a continued connection to and awareness of the industry.

- Through self-assessment and exposure (via course lectures, guest speakers, tours, and assignments) to the various facets of aviation, students will begin (and continue) to develop their own personal goals and path to a career.

### Course Texts:

#### Required:

*Discover Your True North* by Bill George (2015)

Published by Jossey-Bass, ISBN: 978-1119082941

One book from the Industry Reading List. *This will be discussed later in the semester.*

#### Optional:

*Aviation History* by Anne Millbrooke (2006)

Published by Jeppessen Sanderson, ISBN: 0884872351

*Airlines of the Jet Age* by R.E.G. Davies (2011)

Published by the Smithsonian Institution Scholarly Press, ISBN: 0978846087

Additional readings, movies, and study materials will be posted on CARMEN.

### Course Grading and Classroom Policies:

#### Attendance

Attendance and participation in class meetings is critical to your success in this course. Frequent unexcused absences will result in a reduced final grade. Please let me know in advance of an absence where possible via e-mail. Proof of absence such as a doctor's note or faculty/athletics letter is required for excused absences.

#### Prompt Work

As college students and newly-minted adults, I expect that all work completed in class is completed and turned in on time. *Absences do not necessarily excuse you from completing assignments.*

**\*Assignments that require you to upload your paper to a CARMEN dropbox will not be accepted late.\***

#### Weather

*When the University is open, class will meet.* Closure of the university is rare; when storms or other unforeseen circumstances occur, listen to local media for announcements. Please check your OSU e-mail before coming to class in the *rare* event I cannot get to campus. I will make every attempt to e-mail you by 9AM during these *rare* occasions.

Note: As is true throughout the aviation industry, safety is of the utmost importance. If you feel it is not safe, don't come to class.

### Academic Honesty and Plagiarism

It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term “academic misconduct” includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct <http://studentlife.osu.edu/csc/>.

Cheating is never a good idea. Don't do it. **Papers submitted for the course will be run through CARMEN's plagiarism checking software, Turnitin. Reports produced from Turnitin are the starting point for finding plagiarism, and you will be subject to loss of credit for the assignment and/or referral to the OSU Committee for Academic Misconduct if I suspect that you have plagiarized an assignment. Referral to COAM could lead to academic sanction up to and including dismissal from the university.**

As an introduction course, I expect you to put forth a full effort in making sure that your writing does not plagiarize from others. When in doubt, visit the university's Writing Center and/or the Walter E. Dennis Learning Center or ask me **well before the due date** of your writing. Willful plagiarism on your part will result in disciplinary action as noted above. For more info, check out this website: <http://fye.osu.edu/PDF/Orientation/policies.pdf>. **In addition, our industry partners continue to identify writing skills as a serious deficiency for recent graduates. Emphasis will be placed in grading writing assignments on grammar and mechanics. Papers with these mistakes will receive a reduction of at least one letter grade, depending on the assignment.**

### *Schedule Changes & Updates*

I reserve the right to modify the contents of this syllabus during the course of the semester. I will make every attempt to give you sufficient advanced notice of these changes. Changes due to guest speaker availability will likely occur. Please check the course calendar on CARMEN for up-to-date information.

### *Disability Services*

Students with disabilities that have been certified by the Office for Disability Services will be appropriately accommodated and should inform the instructor as soon as possible of their needs. The Office for Disability Services is located in 150 Pomerene Hall, 1760 Neil Avenue; telephone 292-3307, TDD 292-0901; <http://www.ods.ohio-state.edu/>

## **Student Performance Evaluations & Assignments:**

Your performance and understanding of the various course topics will be evaluated during this course using several different methods and assignments. These include, but are not limited to, a midterm exam, group projects, current events assignments, a final synthesis paper, in-class quizzes, homework assignments and classroom participation. A brief overview of some of these elements can be found below.

### *The First Flight Project: 10%*

This group project, which will take place during the first half of the semester, is intended to broaden your historical aviation knowledge by doing an in-depth investigation of an aircraft that made its first flight during the course of the semester. You will be split in to groups of 3-4 students. The project is made up of two parts: The first, is a brief (3-4 minute) presentation to the class about the aircraft you researched as well as a one page introduction to the aircraft to be handed out in class. The second part is a 7-10 page paper discussing the aircraft's development, historical uses and eventual fate. Specific information about this project will be given out on the first Friday of class.

### *Quizzes: 10%*

Expect a quiz covering the prior week's material on each Friday. This short quiz is designed to encourage you to participate in your learning and prepare you for the larger midterm exams. **Insights from the guest speakers that present to the course will be included as potential quiz questions—be sure to take notes as they typically cannot share their presentations!**

### *Midterm Examinations: 30% (2 tests, 15% each)*

These exams are intended to evaluate your knowledge during the course of the semester. Each will be comprehensive to the section of the class covered and will be made up of ~50% multiple choice questions, ~25% short answer questions and ~25% short essay questions. There is no study guide for the exams. Course attendance, past quizzes and the lecture slides are more than adequate to prepare you for the exam.

### *Current Event Summaries: 5%*

You will be responsible for finding two news articles about a piece of noteworthy aviation news during the course of the semester and submitting a one page summary about the article and its implications to a dropbox on CARMEN. Consult the schedule for due dates.

### *Final Synthesis Paper: 25%*

This individual paper is intended to give you the opportunity to reflect on what you've learned in the course and plan ahead from the future. One of the required elements of the assignment is to read a book from the AVN 2000 Industry Reading List and incorporate it into your potential path in the aviation field. More information about this assignment will be given out around the time of the first midterm.

### Classroom Participation: 20%

Your score for classroom participation will come from many different indicators. Are you actively participating in the learning process by asking questions and answering questions posed to you? What does your classroom attendance look like? You can't participate in class if you don't show up. This grade also includes any extra assignments that may come as a result of the course.

***Policy on Rounding:*** I will round scores up to the next letter grade ***at my discretion*** on two conditions: your grade performance in the course has an improving or standard A-B trend and your final paper does not show a significant drop in performance/grade. **I do not round -/+ grades. E-mails or phone calls asking for grades to be rounded will result in your grade not being rounded.**

### **A note about guest speakers:**

One of the highlights of this course is the ability to bring in a large number of aviation industry professionals who take time out of their busy lives to share insight and knowledge with you. Please respect their time and efforts by attending class, paying attention to their lectures, and preparing yourselves for their visits. Many past students have been fortunate enough to find future employment and careers thanks to the speakers in the class. It is up to you to represent yourselves in a professional manner.

### **Class Structure & Instructor Responsibility:**

The aviation industry is a wide-ranging, dynamic and exciting subject to cover, with many potential lucrative and fun careers for you to explore. As your instructor, I will do my best to bring the excitement and wonder of aviation to you in the classroom. I'd much prefer conducting this course entirely in the field--at airports, around airplanes, in different countries, and actually flying, but circumstances dictate our being stuck on campus. To that end, I expect you to be an equal participant in the process in the following ways:

- 1. Reading/watching/listening to assigned materials before you come to class.**  
This will allow us to better utilize our time in class for insightful and exciting discussion.
- 2. Taking advantage of the opportunity to explore.** The National Aviation System is more than just airlines and airports and extends beyond the borders of the United States. Ask questions, search out interesting subjects for the current events assignment, and take the opportunity to interact with our guest speakers. They are taking time out of their professional lives to share with you about what they do.
- 3. Participating in potential industry interaction opportunities outside of class.**  
While not required as part of the course or your grade or guaranteed, I will do my best to set-up tours and guest seminars based off of your schedules and of those in the field. Try your best to attend--you have the opportunity to

experience unique access to knowledge and connections outside of the classroom.

If you have any questions or suggestions about this syllabus or the class, please let me know soon. I can't promise anything, but I will do my best to make the course as valuable and worthwhile as possible for you.

## Aviation 2000 Tentative Schedule Fall Semester 2016

Note: This schedule **will** change based on speaker availability. An up-to-date version will be posted on CARMEN.

Monday	Wednesday	Friday
	<b>August 24</b> Course Introduction Expectations & Class Introductions	26 Introduction to Aviation
29 Pre-Flight: From Icarus to Zeppelin <b>First Flight Project Introductions</b>	31 Pre-Flight: The Glider Pilots	September 2 The Wright Brothers and other Early Pioneers
5 No Class: Labor Day <b>SEPTEMBER 6TH: AMERICAN AIRLINES VISIT TO OSU</b>	7 Early Flight (1904-1915) <b>AIRLINES AT ENGINEERING CAREER FAIR</b>	9 World War One: 1914-1919
12 Birth of Aviation <b>FFP Presentation</b>	14 Aviation's Golden Age <b>FFP Presentation</b>	16 World War Two: 1939-1942 <b>FFP Presentation</b>
19 World War Two: 1942-1945 <b>FFP Presentation</b>	21 The Jet Age <b>FFP Presentation</b>	23 The Cold War <b>FFP Presentation</b>
26 The Space Race <b>FFP Presentation</b>	28 <i>Diamonds in the Sky</i> Video	30 <b>Midterm 1</b>

Monday	Wednesday	Friday
<p style="text-align: right;"><b>October 3</b></p> <p><b>Republic Airways Classroom Visit</b></p>	<p style="text-align: right;">5</p> <p>4 Forces of Flight: Lift, Drag, Thrust, and Weight</p>	<p style="text-align: right;">7</p> <p>The Airplane Review Midterm</p>
<p style="text-align: right;">10</p> <p>The Airplane: Cockpit</p>	<p style="text-align: right;">12</p> <p>General Aviation <b>FIRST FLIGHT PAPER DUE 5:00PM</b></p>	<p style="text-align: right;">14</p> <p>No Class, Fall Break</p>
<p style="text-align: right;">17</p> <p>Intro to the Airline Industry I</p>	<p style="text-align: right;">19</p> <p>Intro to the Airline Industry II</p>	<p style="text-align: right;">21</p> <p>Intro to Airports I <b>CURRENT EVENT 1 DUE</b></p>
<p style="text-align: right;">26</p> <p>Intro to Airports II</p>	<p style="text-align: right;">28</p> <p>FAA, Regulations, &amp; Pilot Certifications</p>	<p style="text-align: right;">30</p> <p>Introduction to Aviation Safety &amp; Accident Investigation</p>
<p style="text-align: right;"><b>November 2</b></p> <p>Aviation Industry Hiring Outlook and RATP Briefing</p>	<p style="text-align: right;">4</p> <p>Landing an Aviation Job: Networking &amp; Professionalism</p>	<p style="text-align: right;">6</p> <p><b>Midterm 2: The Aviation System</b></p>
<p style="text-align: right;">9</p> <p>Guest Speaker Slot</p>	<p style="text-align: right;">9</p> <p>Aviation &amp; City and Regional Planning with Ryan Dittoe</p>	<p style="text-align: right;">11</p> <p>No Class, Veterans Day</p>
<p style="text-align: right;">14</p> <p>Guest Speaker Slot</p>	<p style="text-align: right;">16</p> <p>Guest Speaker Slot</p>	<p style="text-align: right;">18</p> <p>Guest Speaker Slot <b>CURRENT EVENT 2 DUE</b></p>
<p style="text-align: right;">21</p> <p>Guest Speaker Slot</p>	<p style="text-align: right;">23</p> <p><b>No Class: Thanksgiving Break</b></p>	<p style="text-align: right;">25</p> <p><b>No Class: Thanksgiving Break</b></p>



Monday	Wednesday	Friday
Guest Speaker Slot 28	Guest Speaker Slot 30	Hold for Tour <b>December 2</b>
Guest Speaker Slot 5	Review/Evaluation Last day of class! 7	<b>Friday, December 9th:</b> <u><b>Final Synthesis Paper Due</b></u>