Welcome!

Unmanned Aerial Systems is a rapidly-growing industry, so you may not find all the information you need in the traditional databases or by only using print books, because the information just hasn't been written in that form yet!

But don't worry, we have plenty of e-books, industry databases and the most current collection of UAS print materials out there!

This site contains everything you need to successfully complete your research. Remember, if at any point you're not sure what to do or where to go next, you can always ask a librarian!

*All links open in a new tab when clicked.*

Developing Your Research Topic

Whether you've selected your own research topic or your instructor has provided you with one, you will likely find yourself modifying it as you write and gather information.

Most of the time, we hear great topics from students. Sometimes these topics are so unique and brilliant that data has not yet been compiled and published about them. So if you are searching and searching and can't find the data you need it's possible that data doesn't exist. Be sure to Ask a Librarian before you decide the data doesn't exist. If this is the case, be flexible. Take a look at what you are finding and tweak your topic to address data that does exist.

(And, save that topic! When you start doing original research, you’ll already have a great research question ready to go.)

Keywords

Good keywords are essential to good research. So it is a good idea to come up with a list of keywords before you even start researching.

Two simple questions can get you started:
1. What do I know about my topic?
2. What do I want to know about my topic?
List out the answers to those questions using single words or simple phrases. These will become your keywords.

Be prepared that this may all change as you learn more information through your research.

Find Articles and Books

**Popular and Scholarly Articles**

**ProQuest Research Library**
ProQuest is great for finding popular articles and scholarly articles on almost any topic.

**SpringerLink**
SpringerLink is an integrated full-text database for journals, books, protocols, eReferences, and book series published by Springer. In addition to the newest information, K-State has access to the historical archives of all the sections of the database. This database covers a wide range of subjects ranging from sciences to the humanities and has the capability of pulling specific information out of books.

**LexisNexis Academic**
Provides online access to the full-text of documents from over 5,600 news, business, legal, medical, and reference publications.

**ABI/INFORM**
Covers more than 3,000 scholarly, trade, and general publications as well as regional and national newspapers.

**Compendex**
The electronic version of Engineering Index, Compendex is the most comprehensive bibliographic database of engineering research available today, containing over 8 million references and abstracts taken from over 5,000 engineering journals, conferences and technical reports dating back to 1969.

**Expanded Academic ASAP**
This is a good starting place for finding journal articles on almost any topic. Full-text and/or scanned pdfs are included for many of the articles it indexes.

**IEEE Electronic Library Online**
Contains full-text of journal articles, conference papers, and technical standards from the Institute of Electrical and Electronics Engineers (IEEE) and Institution of Electrical Engineers (IEE).
Industry Databases

Air University Library Index to Military Periodicals (AULIMP)

The Air University Library’s Index to Military Periodicals provides citations and abstracts to articles, news items, and editorials from military and aeronautical periodicals covering all branches of the military. A few links are provided to full-text.

Department of Transportation Digital Special Collections

The DOT library has digitized numerous collections relating to airlines, trains, and other modes of transportation.

TRIS Online: Bureau of Transportation Statistics

TRIS Online provides access to almost 450,000 records of published transportation research. Over 470 serial publications are regularly indexed and abstracted for the database, and TRIS also provides links to over 9,000 full text public-domain documents.

National Technical Information Service (NTIS)

NTIS Database is the preeminent resource for accessing the latest research sponsored by the United States and select foreign governments.

Print Books

Looking for a print book? Check out these titles and MORE in our collection! We’re constantly updating the collection, so stop by and browse around!

Planes Without Pilots by Bill Siuru

ISBN: 9780788150067
Publication Date: 1997-07-01

Provides a broad overview of current UAV (unmanned air vehicles) research and the many ways this technology is being used in the development of a variety of applications: "Smart" weapons, unmanned attack aircraft, atmosphere sampling, space probes, advanced aerial sensors, weather reporting . . . and much more. The author also describes how specific advances in microelectronics, robotics, and optics have made recent UAV breakthroughs possible. He also speculates on the direction of future UAV experimentation.

Unmanned Aircraft Systems by David G. Casos

ISBN: 9781607411147
Publication Date: 2009-05-01
Congress has expressed a great deal of interest in using Unmanned Aircraft Systems (UASs) to surveil the United States' international land border. This book examines the strengths and limitations of deploying UASs along the borders and related issues for Congress.

**Airpower and Technology by David R. Mets**

ISBN: 9780275993146

Publication Date: 2008-12-30

In a chronological treatment, emphasizing theory and doctrine, technology, tactics, and strategy, Mets also details both combat experience and intellectual processes, lethal and non-lethal, involved in the preparation of airpower. In addition to the narrative discussion, the work offers sidebars and feature sections that facilitate the understanding of key weapons systems and operational challenges. It also offers A Dozen-Book Sampler for Your Reading on Air and Space Theory and Doctrine. The work concludes with a brief look at information warfare and with some speculations about the future. Through this thorough consideration of the evolution of American airpower and technology, Mets provides, not only a map of the past, but a guide to future generations of airpower and its potential for keeping the United States strong and safe.

**Unmanned Aviation by Lawrence R. Newcome**

ISBN: 9781563476440

Publication Date: 2004-08-01

In the 1990s, the author oversaw development of two of the Pentagon's most advanced UAVs. As he looked at the history of unmanned planes, he noticed that each time a conflict broke out, well-intentioned American engineers would get to work on the latest unmanned concepts all but blind to the work of those who came before them. In this book, Newcome chronicles the long history of unmanned aircraft in hopes of ending the cycle of duplicative efforts. If this brief history can help prevent such reinventions of the wheel within unmanned aviation endeavors in the future, then it will have served its purpose, Newcome writes. Newcome traces the family tree of unmanned aircraft all the way back to their roots as aerial torpedoes, which were the equivalent of today's cruise missiles. He discusses the work of leading aerospace pioneers whose efforts in the area of unmanned aviation have largely been ignored by history. The book chronicles the use of unmanned aircraft in times and places where you might not expect them, such as during the Cold War, in Vietnam, and in Israel.

**Safety and Reliability in Cooperating Unmanned Aerial Systems by Nicolas Lechevin; Camille Alain Rabbath**

ISBN: 9789812836991

Publication Date: 2010-01-01
This book provides a comprehensive overview of recent advances in the analysis and design of health management systems for cooperating unmanned aerial vehicles. Such systems rely upon monitoring and fault adaptation schemes. Motivation for their study comes from the fact that, despite the use of fault-tolerant control software and hardware embedded onboard air vehicles, overall fleet performance may still be degraded after the occurrence of anomalous events such as systems faults and failures. Cooperative health management (CHM) systems seek to provide adaptation to the presence of faults by capitalizing on the availability of interconnected computing, sensing and actuation resources. This monograph complements the proposed CHM concepts by means of case studies and application examples. It presents fundamental principles and results encompassing optimization, systems theory, information theory, dynamics, modeling and simulation. Written by pioneers in cooperative control, health management and fault-tolerant control for unmanned systems, this book is a unique source of information for designers, researchers and practitioners interested in the field.

Print Books

IMPORTANT:

Unmanned aircraft systems is a NASA thesaurus heading, not a phrase generally used by libraries for classifying, so while you may get some hits, you may be missing a lot of important sources!

Try these additional subject headings:

Drone Aircraft
Vehicles, Remotely piloted
Pilotless aircraft

SearchIt

Use the meta-search feature SearchIt to search both the Manhattan and Salina online catalogs for books, as well as online databases for ebooks, articles and newspapers, all at the same time. Note: This feature does not include ALL the databases K-State subscribes to in the search results, so you may have to use other databases as well! SpringerLink

SpringerLink is full-text database for thousands of journals, books, protocols, eReferences, and book series published by Springer. This database covers a wide range of subjects ranging from sciences to the humanities and has the capability of pulling specific information out of books.

IEEE-Wiley eBooks Library
Available through IEEE Xplore, these full text works published by Wiley provide access to content in current cutting-edge technologies in electrical engineering, computer science and electronics. The collection of over 400 titles includes handbooks, introductory and advanced texts, reference books and professional books.

Evaluating Sources

Evaluation Checklist

Image linked here.

Transcript follows:

Currency: The timeliness of the information.

- When was the information published or posted?
- Has the information been revised or updated?
- Does your topic require current information, or will older sources work as well?
- Are the links functional?

Relevance: The importance of the information for your needs.

- Does the information relate to your topic or answer your question?
- Who is the intended audience?
- Is the information at an appropriate level (i.e. not too elementary or advanced for your needs)?
- Have you looked at a variety of sources before determining this is one you will use?
- Would you be comfortable citing this source in your research paper?

Authority: The source of the information.

- Who is the author/publisher/source/sponsor?
- What are the author's credentials or organizational affiliations?
- Is the author qualified to write on the topic?
- Is there contact information, such as a publisher or email address?
- Does the URL reveal anything about the author or source?

Accuracy: The reliability, truthfulness and correctness of the content.
• Where does the information come from?
• Is the information supported by evidence?
• Has the information been reviewed or refereed?
• Can you verify any of the information in another source or from personal knowledge?
• Does the language or tone seem unbiased and free of emotion?
• Are there spelling, grammar or typographical errors?

Purpose: The reason the information exists.
• What is the purpose of the information? Is it to inform, teach, sell, entertain or persuade?
• Do the authors/sponsors make their intentions or purpose clear?
• Is the information fact, opinion or propaganda?
• Does the point of view appear objective and impartial?
• Are there political, ideological, cultural, religious, institutional or personal biases?

Bias
Is an organization mentioned in relation to an article? Think tanks, associations, and other organizations usually exist for a reason. Learn more about the organization to identify potential biases by:
• Going to the organization's website and looking for information about their Mission
• Searching for news articles about the organizations that indicate their political leaning.

Are all biases bad? NO. But being aware of them helps contextualize the information presented.

Fact Checking
Curious about the facts presented? Are the numbers accurate? Was someone quoted correctly? There are a few things you can do:
• Look for the source of facts yourself. A good author will give you some indication of where they found the information. For example, if an article references a recent Congressional Budget Office (CBO) report, go to the CBO's site to locate the report.
• **LexisNexis Academic** has a section under News for TV & Radio Transcripts. You may be able to find the transcript of an interview, or the text of a public statement here.

• **Politifact** focuses on political statements. Researchers at the Tampa Bay Time fact check speeches, ads, and more. Politifact references their sources, making it relatively easy for readers to retrace their steps.

• **FactCheck.org** also focuses on political statements, this project from the Annenberg Public Policy center fact checks speeches, ads, and more. FactCheck.org references their sources, making it relatively easy for readers to retrace their steps.

**APA Citation Guide**

**APA Basics**

**Welcome**

In this guide, you will find information about how to cite in correct APA format and links to resources to make citation easier.

As of Fall 2014, all courses on our campus have required APA citation style. If you still have questions after viewing this guide, please meet with your professor, a librarian, or the Writing Center.

For more information on **K-State’s Honor Code** and **Plagiarism Policy**, please view this document.

**APA Tools**

The following are suggested tools to help you build better APA citations.

• **Purdue Owl - APA**

• **EasyBib**
  
  o Remember, no tool is perfect, so be sure to check your citations with a style guide!

• **Refworks**

**APA Books**

The *Publication Manual of the American Psychological Association, 6th Edition*

ISBN: 1433805618
This manual is available on Reserve at the library front desk, as well as in the Writing Center.

An Easy Guide to APA Style
ISBN: 9781412991247
This guide is available to be checked out from Hale Library under the call number: BF76.7 .S39 2012.

This manual is available on Reserve at the K-State Polytechnic Library front desk, as well as in the Writing Center.

ISBN: 9780470671238
This guide is available to be checked out from Hale Library under the call number: BF76.7 .B447 2012.

This manual is available on Reserve at the K-State Polytechnic Library front desk, as well as in the Writing Center.

APA Formatting Tips

Paraphrasing
If you are paraphrasing a thought, put an in-text reference that states the last name of the author, year, and page number.

Example - I am typing a sentence (Author, 2014, p. 1).

Direct Quotes
If you are directly quoting an author you will need to put the year of the publication after the author in parentheses, and also put the page number at the end of the thought.

Example - According to Jones (2017), “K-State Polytechnic Students are the best” (p. 1).

Direct Quotes (40 words or longer)
If you are including a longer direct quote, it must be indented ½ inward from the left margin.

For more information look at Purdue Owl’s APA site. (Link will open in new tab).
Reference Formatting Tips

When creating your Reference page for a paper or project:

- Label the Reference section as "References" (NOT "Works Cited" etc) in top and center of the page.
- Order your references alphabetically.
- Double space between each source.
- If the source citation requires more than one line, the following lines must be indented.
- It is important that you only capitalize the first word of the title and the first word of a subtitle.

APA Resources

Citing in APA

*Links open in a new tab.*

APA (American Psychological Association) is the most common style to cite with in the social sciences.

Here are some good resources for citing sources in personal communication such as email, letters, interviews, and conversations:
Purdue Online Writing Lab (OWL)  other non-print sources - interviews, email, and other personal communication

EasyBib  How to cite a personal interview in APA

APA Style  How do you cite an interview?

(Links will open in new tab)

Basics of APA Style Tutorial

There are two (2) copies of the APA Citation Manual located in Reserves. Please ask at the library's front desk.

Citation Example:

![Example APA citation]


Databases with Citation Features

These are some databases you can search for scholarly sources in that also have citation features.

- CQ Researcher (look for "CiteNow!")
- Expanded Academic ASAP (look for "Citation Tools")
- ProQuest Research Library (look for "Cite")

Refworks Tools

Creating an Account
Creating a RefWorks account at K-State is very easy.

1. From the RefWorks sign in page, click on "Sign Up for a New Account"

![Login to Your RefWorks Account](image)

2. Enter your email, create a login name and password. On the next screen, you will enter basic information about yourself.

You can have multiple RefWorks accounts. This is helpful if you want to keep your personal research citations separate from a research team that you work with. Simply create a new username and password for each new account. If you are working with a group, share the username and password with other members and they will be able to access the account, too.
3. Ta-Da! Now you have a RefWorks account.

As long as K-State subscribes to RefWorks, K-State faculty, staff, students and alumni will have access to RefWorks. Just be sure you update your email address in your account information when you graduate!

**Write-N-Cite**

Write-N-Cite is built into Microsoft Word. With Write-N-Cite, you can insert citations in your Word documents as you’re writing, and then generate a reference list based upon those citations.

**DOWNLOAD Write-N-Cite**

- In RefWorks, click on Tools / Write-N-Cite
- A window will pop-up and will identify your computer's operating system.
- Follow the download instructions.
For Mac users Write-N-Cite 2.5 is not compatible with Mac OSX Lion (version 10.7). Mac users with OSX Lion or newer will need to use Write-N-Cite 4.

Whichever version of Write-N-Cite you download, you can always uninstall it and download a different version.

Creating Bibliographies

RefWorks creates bibliographies, or reference lists, based upon the references you have in your account. You can create a bibliography using all of your references, or just those in a specific folder.

1. Click on the Create Bibliography button

2. Select your Output Style (e.g. APA, MLA, Chicago, IEEE)

3. Select a File Type. Word or Rich Text usually work best

4. Click on Create Bibliography.

5. Depending on what format you selected, RefWorks may open a web page (html), a Word document, or your text editor with your reference list.

Getting Started

When you first create your RefWorks account it is empty. That is because you have to add the citations relevant to your research.
Fortunately, most of our databases talk with RefWorks and make it fairly easy to send (or export or download) citations into your RefWorks account.

In most databases, you will select the books or articles that you want to save into RefWorks by checking a box or otherwise saying, "I want this."

Once you have marked the records you want, you will have some kind of option to Send, Export, or Download the citations. RefWorks provides instructions for saving references from databases into RefWorks.

Other Features

When you view a record in RefWorks, some information is fairly easy to identify. You can usually locate the author, title, source, and other information fairly quickly.

There are other, useful features to note when looking at records in RefWorks.

[Image: Refworks References list page with important element highlighted and described; “last imported,” “change view,” “journal article,” “edit the record,” “Get It button”]
1. What folder you are currently viewing.

2. Changing the view. RefWorks defaults to Standard View, but you can look at a Full Record (which will include the abstract, if available) or the references formatted in styles like APA, MLA, and others.

3. The Get It button appears in RefWorks. This means that current K-State students, faculty, and staff and link to or request the full text of articles and other documents from inside RefWorks.

4. You can edit any record in RefWorks at any time.

5. The type of source RefWorks thinks the record is. This can affect how the reference is formatted by RefWorks and if it is incorrect, you can edit it when you edit the record.

**Manage Your Output Styles**

If you cannot locate your output style (e.g. APA, MLA, Chicago, IEEE) from the list of options offered when you create a new bibliography, you can add that style to your list of favorites.

1. Click on Create Bibliography

[Image: RefWorks top toolbar with the Create Bibliography button highlighted]

2. From the bibliography window that pops up, click on Manage Output Styles
3. In the output style manager, search or scroll through the options (there are several hundred) until you find yours.

4. Use the arrows in between the Output Styles box and the Favorites box to move the style you want over to Favorites.

RefWorks Video Tutorial

https://www.youtube.com/user/ProQuestRefWorks/featured