Department of Mathematical Sciences

Academic Integrity Brief

AY 22-1

Integrity in the Classroom

- "In the academic realm, integrity is the foundation of good scholarship. West Point is committed to the development of lifelong habits of integrity" (DAW 1).

- "Proper documentation helps delineate your role as an author by showing what portions of any work you submit are yours and what portion is the work of others. Proper documentation is both a testament to academic merit and an expression of your integrity" (DAW 1).

- "Every cadet scholar must properly document the sources of information and ideas received. When in doubt, a good rule is to document any assistance in question" (DAW 1).

What should you document?

You must document the words, ideas, and work of others (non-exhaustive):

- **Print sources** – any materials published or unpublished, to include books, periodical publications, newspapers, and other written work.
- **Electronic sources** – any materials found on the Internet, Intranet, or non-networked sources to include web pages, web logs, and databases.
- **Recorded material** – any television or radio program, audio cassette or CD, movie, or other filmed or recorded event.
- **Communications** – any lectures, presentations, or personal conversations or interviews, whether conducted in person, telephonically, in chat/collaboration rooms, or via electronic email and messaging.
- **Images** – any charts, graphs, tables, data illustrations, graphics, and photographs.
- **Assistance**– typically verbal, non-verbal, or electronic help from another person.
- **Collaboration**—two or more people working jointly to produce a solution or who each complete a part and then join together to form a common submission
- **Extended Proofreading** – that substantially alters the style, format, substance, or organization

(DAW 2-3, 17)

What you don't have to document

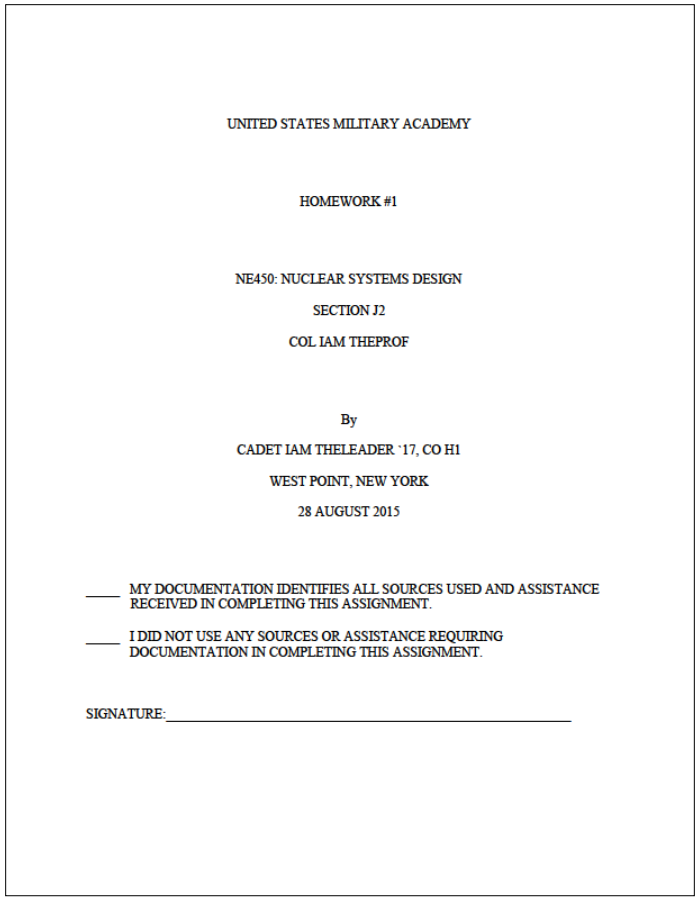
- **Your instructor**, unless otherwise specified (you must document other instructors)
- **Your formal group**, as designated by your instructor
- **Common spell-checker, grammar-checker, compiler, and debugger software and course-wide computer application packages** (Word, Excel, R, Mathematica, etc)
- **Common knowledge**: ideas from your current instructor offered in or out of class, ideas offered from cadets in class as part of discussions concerning the subject of the assignment, and formulas from the text or course website
- **Basic proofreading**: spelling errors, grammatical mistakes, and slight stylistic flaws

(DAW 11, 16)

How will you document?

- Prescribed format for Core Mathematics courses:
  - MLA, *The Little Brown Handbook*
- In-text Citations + Works Cited = Complete Documentation
- The *Documentation of Academic Work*, July 2017, and *The Little Brown Handbook* provide examples of documentation.
- If the submission is handwritten, documentation may also be handwritten.
- Specific to USMA, you will also submit a Cover Sheet with an Acknowledgement Statement.

What does the Cover Sheet look like?



UNITED STATES MILITARY ACADEMY

HOMEWORK #1

NE450: NUCLEAR SYSTEMS DESIGN

SECTION J2

COL IAM THEPROF

By

CADET IAM THELEADER '17, CO H1

WEST POINT, NEW YORK

28 AUGUST 2015

____ MY DOCUMENTATION IDENTIFIES ALL SOURCES USED AND ASSISTANCE RECEIVED IN COMPLETING THIS ASSIGNMENT.

____ I DID NOT USE ANY SOURCES OR ASSISTANCE REQUIRING DOCUMENTATION IN COMPLETING THIS ASSIGNMENT.

SIGNATURE:_____

- Once you have completed your graded assignment and documented all sources, you must **PAUSE** and **REFLECT** on the accuracy of your identification and attribution of these sources. You will initial either:

  ___ My documentation identifies all sources used and assistance received in completing this assignment.

  Or:

  ___ I did not use any sources or assistance requiring documentation in completing this assignment.

- You then **ACT** by signing at the bottom of the cover sheet

(DAW 32)

What do In-text Citations look like?

- "In-text citations of sources must include just enough information for the reader to locate both of the following:
  - The *source* in your list of works cited.
  - The *place* in the source where the borrowed material appears"
    (Fowler 644-645).

- Example of a Source.

  Error exists in our model because, in general, mathematical models *approximate* real world behavior (Arney 15).

- Example of Cadet Assistance Received

  Our project group then calculated the sum of squared errors for our given data and used this value to evaluate our model (CDT Dooley 2021).

What do Works Cited look like?

A separate page at the end of your submission that lists all sources and any assistance that you received.

Arney, David C. *Discrete Dynamical Systems: Mathematics, Methods and Models.* 3rd ed. New York: McGraw-Hill, 1999. Print.

Moore, Lessa CDT B-3 `23. E-mail to the author. In a series of email messages during the dates indicated, CDT Moore and I discussed the application of the Organization Process Model. She informed me that the actors in this model are organizations, not individuals. She also said that the Organizational Process Model contradicted the Bureaucratic Politics Model, which focuses on individuals. 12-14 Oct 2020.

Travis, Brad. "Deriving Kinematic Equations." *YouTube*. YouTube, 16 Aug. 2013. Web 16 Sep. 2020. https://www.youtube.com/watch?v=tp_8a-A9ZvU Though this video covers all of the derivations, I used it mostly for the last derivation. The biggest takeaway from the video was to solve for t and then substitute that into the second equation. After that, I did not use the video for the algebra, I worked that out on my own.

What does Programming documentation look like?

- Templates are ***not*** common knowledge unless provided by your instructor. You must document the use of any template received from another cadet, regardless of whether you received it in or out of class.
- Searching online for examples of code is a common practice. You must document any code examples that provides help beyond basic syntax (e.g., if the code performs an algorithm)
- Documentation of Mathematica or R code must take the form of comments, non-executable statements, or text embedded within the program or document. -- *Mathematica* Comment **(* *)**
- Example using embedded text in Mathematica:

```
Do[t[i]=t[i-1]+step;c[i]=c[i-1]+step*X1[c[i-1],g[i-1]];
    g[i]=g[i-1]+step*X2[c[i-1],g[i-1]],{i,1,iterations}];
```

(* Smith, Joseph CDT F-3 '12. Assistance given to the author, verbal discussion. CDT Smith explained that I had an infinite loop because I never set a maximum value for the loop control variable within the previous Do command. Once I added a maximum iteration value of 30, the loop behaved correctly. West Point, NY. 2 Apr 2011. *)

```
values=TableForm[Table[{t[i],c[i],g[i]},{i,0,iterations}],
    TableHeadings->{None,{"t","c","g"}}]
```

Works Cited

Smith, Joseph CDT F-3 '12. "Infinite loop fix." Verbal discussion. 2 Apr 2012.

What does Programming documentation look like?

- Templates are ***not*** common knowledge unless provided by your instructor. You must document the use of any template received from another cadet, regardless of whether you received it in or out of class. If you use a non-standard library in R, use the citation("Name") command
- Searching online for examples of code is a common practice. You must document any code examples that provides help beyond basic syntax (e.g., if the code performs an algorithm)
- Documentation of R code must take the form of comments, non-executable statements, or text embedded within the program or document. -- *R* Comment **#**
- Example using embedded text in R:

```
library(tidyverse)
citation("tidyverse")
model1=lm(FEV~Age+Height+Smoke,data=smoking.data)
summary(model1)
# Smith, Joseph CDT F-3 '12. Assistance given to the author, verbal discussion. CDT Smith explained
    that I should remove one variable at a time, based the largest p-value and check the new
    adjusted r^2 value. After removing Age from model1, I identified model2 had a lower adjusted r^2
    value, so I chose model1 as my final model.  West Point NY, 02 April 2011.
```

Works Cited

Wickham , Hadley. Tidyverse: Easily Install and Load the "Tidyverse". R package version 1.2.1, 2017. https://CRAN.R-project.org/package-tidyverse.

Smith, Joseph CDT F-3 '12. "Finding the best multiple linear regression model." Verbal discussion. 2 Apr 2012.

Documenting Web-Based Graded Homework (WebAssign, WileyPlus, etc.).

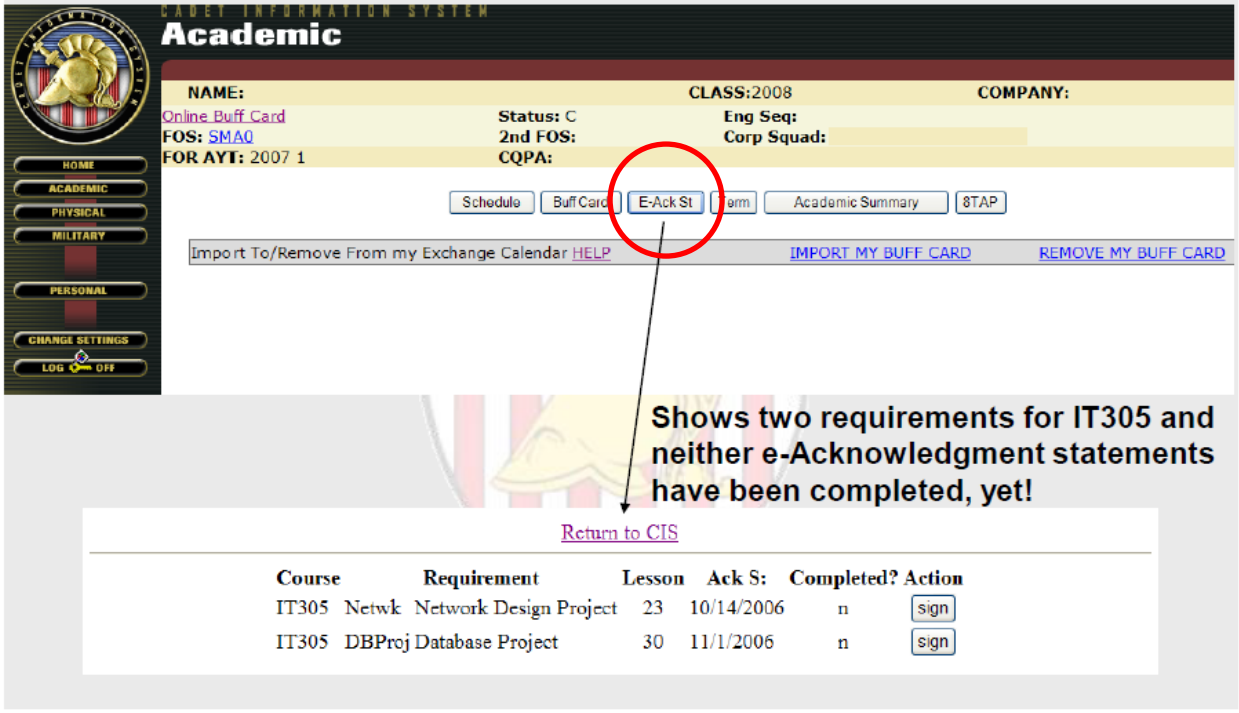
- Cadets must still PAUSE, REFLECT, and ACT.
- Must indicate one of the two statements:
  - MY DOCUMENTATION IDENTIFIES ALL SOURCES USED AND ASSISTANCE RECEIVED IN COMPLETING THIS ASSIGNMENT.
  - I DID NOT USE ANY SOURCES OR ASSISTANCE REQUIRING DOCUMENTATION IN COMPLETING THIS ASSIGNMENT.
- Cadets must provide proper documentation when indicating the first statement.
- “Cadets will type their full name to represent their signature.”

(DAW 56)

How will you document graded assignments?

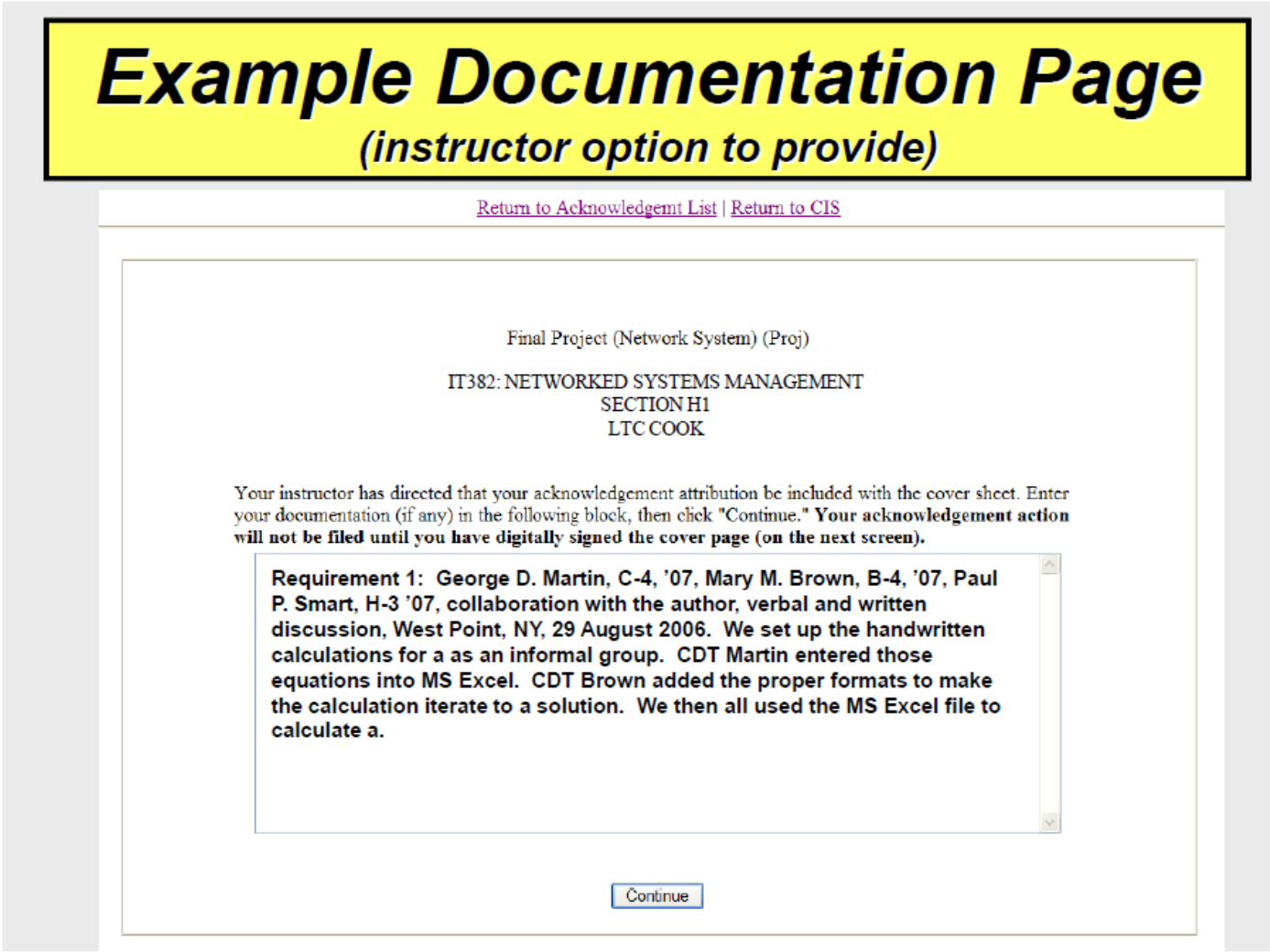
- eAcknowledgment statements on CIS (Cadet Information System)

e-Acknowledgment
(What the cadet sees)

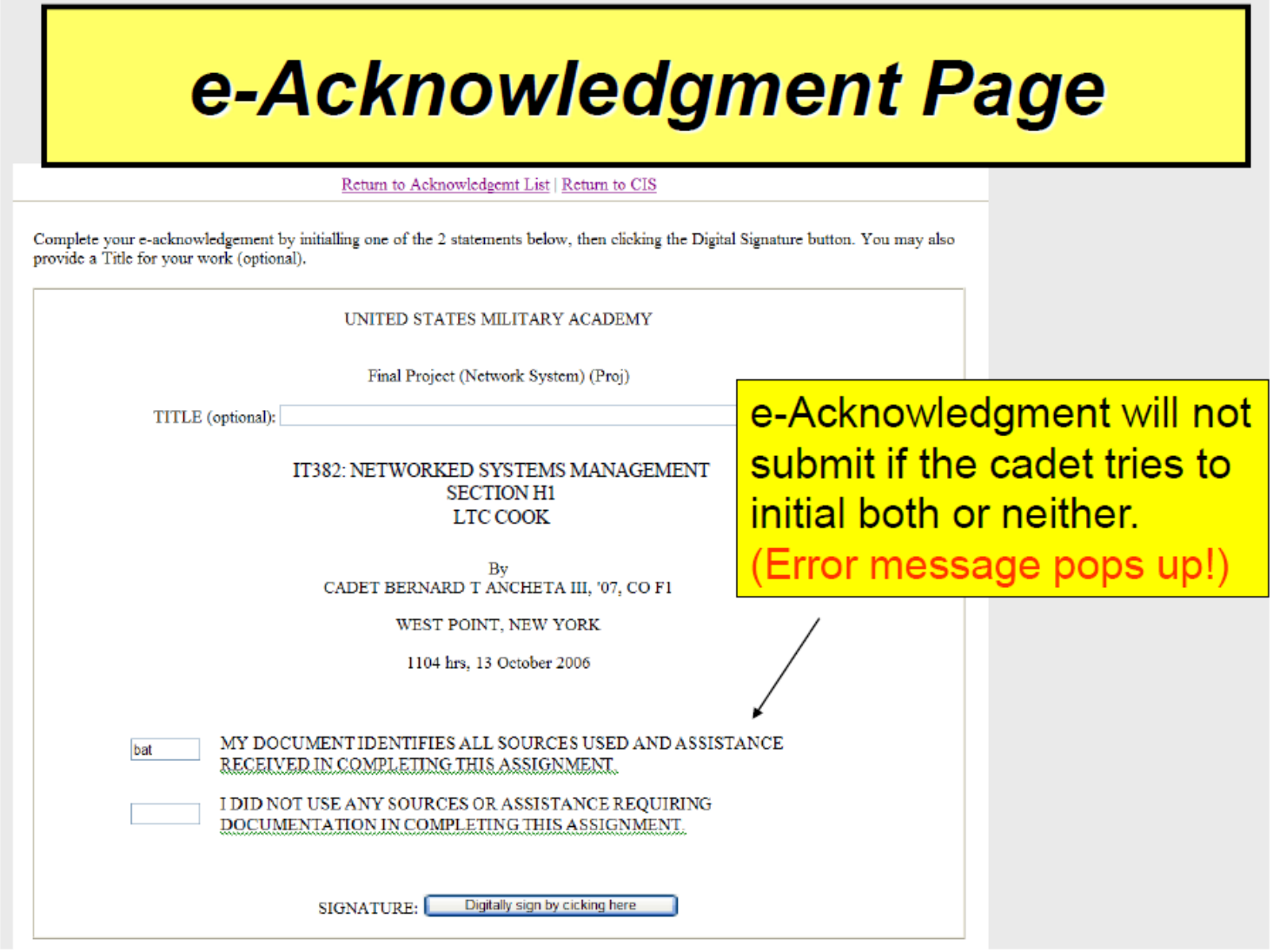


- Documentation (page 2) will be available. Use if needed.

Example Documentation Page
(instructor option to provide)



- eAcknowledgment page ("Cover Sheet")



Practices to Avoid

- Do not think that a template/file is Common Knowledge if there are many recipients; you must document assistance unless it came from your instructor or within your formal group.
- Do not rush to initial and sign the Cover Sheet without Pausing and Reflecting on any needed documentation.
- Do not receive a file and rename/use it as your own. It is very difficult to keep track of what is your work and that of the file's original author.

Practices to Follow

- Actively document sources and assistance received while working on assignments, not just at the end.
- Complete your assignments before coming to class; do not try to put everything together at the last minute.
- When submitting group work, each member should review all documentation to “double check” each other for clarity and detail.
- Professionals acknowledge the work of others.