

# IE 4351 & IE 5351 Reading Assignments

All reading assignments are individual assignments.

## Assignment # 1 – Due 8/30/22

- Review *Creating References Using Seventh Edition APA Style* tutorial video on <https://apastyle.apa.org/instructional-aids/tutorials-webinars>
- Scan APA related reference material on [https://owl.purdue.edu/owl/research\\_and\\_citation/apa\\_style/apa\\_formatting\\_and\\_style\\_guide/general\\_format.html](https://owl.purdue.edu/owl/research_and_citation/apa_style/apa_formatting_and_style_guide/general_format.html)
- INCOSE Handbook, 4<sup>th</sup> Edition (2015)
  - Chapter 1, Systems Engineering Handbook Scope
  - Chapter 2, Systems Engineering Overview
- Review *Habits of a Systems Thinker* (Waters Center for Systems Thinking, 2020) at <https://ttsfilestore.blob.core.windows.net/ttsfiles/habits-single-page-2020.pdf>

## Assignment # 2 – Due 9/6/22

- Read the following article: Ferreira, S., Faezipour, M., & Corley, H.W., (2013). Defining and addressing the risk of undesirable emergent properties, 2013 IEEE International Systems Conference. Note that this requires that you figure out how to find the article using the UTA library resources or other source.
- Review systems thinking information at [https://incoseuk.org/Documents/zGuides/Z7\\_Systems\\_Thinking\\_WEB.pdf](https://incoseuk.org/Documents/zGuides/Z7_Systems_Thinking_WEB.pdf)
- Read Chapter 1 of Kirkwood, 2001 at <http://www.public.asu.edu/~kirkwood/sysdyn/SDIntro/ch-1.pdf>
- INCOSE Handbook, 4<sup>th</sup> Edition (2015)
  - Chapter 3, Generic Life Cycle Stages

## Assignment # 3 – Due 9/13/22

- INCOSE Handbook, 4<sup>th</sup> Edition (2015)
  - Chapter 4, Technical Processes

## Assignment # 5 – Due 10/4/22

- INCOSE Handbook, 4<sup>th</sup> Edition (2015)
  - Chapter 5, Technical Management Processes

## Assignment # 6 – Due 10/11/22

- INCOSE Handbook, 4<sup>th</sup> Edition (2015)
  - Chapter 6, Agreement Processes
  - Chapter 7, Organizational Project-Enabling Processes

## Assignment # 7 – Due 10/18/22

- A Practical Guide to SysML: The Systems Modeling Language, 3rd Edition by Sanford Friedenthal, Alan Moore, and Rick Steiner, 2015, Morgan Kaufmann, ISBN-13 978-0128002025. (Available as an ebook at UTA library)
  - Chapter 2 Model-Based Systems Engineering
  - Chapter 5 Viewing SysML Models with Diagrams

#### Assignment # 8 – Due 10/25/22

- A Practical Guide to SysML: The Systems Modeling Language, 3rd Edition by Sanford Friedenthal, Alan Moore, and Rick Steiner, 2015, Morgan Kaufmann, ISBN-13 978-0128002025. (Available as an ebook at UTA library)
  - Chapter 6 Organizing the Model with Packages

#### Assignment # 9 – Due 11/1/22

- A Practical Guide to SysML: The Systems Modeling Language, 3rd Edition by Sanford Friedenthal, Alan Moore, and Rick Steiner, 2015, Morgan Kaufmann, ISBN-13 978-0128002025. (Available as an ebook at UTA library)
  - Chapter 12 Modeling Functionality with Use Cases

#### Assignment # 10 – Due 11/8/22

- A Practical Guide to SysML: The Systems Modeling Language, 3rd Edition by Sanford Friedenthal, Alan Moore, and Rick Steiner, 2015, Morgan Kaufmann, ISBN-13 978-0128002025. (Available as an ebook at UTA library)
  - Chapter 13 Modeling Text-Based Requirements and Their Relationship to Design

#### Assignment # 11 – Due 11/15/22

- A Practical Guide to SysML: The Systems Modeling Language, 3rd Edition by Sanford Friedenthal, Alan Moore, and Rick Steiner, 2015, Morgan Kaufmann, ISBN-13 978-0128002025. (Available as an ebook at UTA library)
  - Chapter 9 Modeling Flow Based Behavior with Activities
  - Chapter 11 Modeling Event-Based Behavior with State Machines