



MADN-LIB

04 Oct 2017

**Library Policy Operating Memorandum No. 3.6.13**

**USMA Library Support Statement  
Department of Physics and Nuclear Engineering**

1. **PURPOSE:** To assist the Department of Physics and Nuclear Engineering (D/PANE) in its goals, the USMA Library will seek to advance the intellectual development of all cadets enrolled in the core courses and the four distinct majors of the department. The Library will serve as the intellectual foundation for the continued development of faculty and for the lifelong learning of D/PANE graduates.
2. **INFORMATION LITERACY:** The Library will provide instruction to meet the following learning outcome:
3. **LIBRARY INSTRUCTION:**

<p><b>Core Courses</b> The Department of Physics and Nuclear Engineering has established five goals for the core physics program, which drive the design of <b>PH202, PH205, PH255, PH206, PH256</b>, and the associated laboratory components.</p> <p><b>Nuclear Engineering Core Courses</b> <b>NE300, NE350, NE355</b> and the associated laboratory components.</p>	<p><b>Course Goals</b></p> <ol style="list-style-type: none"> <li>a. Comprehend physical concepts relevant to follow-on disciplines and future service as an officer</li> <li>b. Apply physical principles and mathematical competencies with logical processes</li> <li>c. Analyze and solve problems of increasing complexity</li> <li>d. Develop the ability to learn independently</li> <li>e. Examine physical phenomena, analyze data, and communicate results</li> </ol> <p><b>Course Outcomes</b> The nuclear engineering student outcomes are that cadets possess or must attain:</p> <ol style="list-style-type: none"> <li>a) An ability to apply knowledge of mathematics, science, and engineering</li> <li>b) An ability to design and conduct experiments as well as to analyze and interpret data.</li> <li>c) An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.</li> <li>d) An ability to function on multi-disciplinary teams.</li> <li>e) An ability to identify, formulate, and solve engineering problems.</li> </ol>
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	<p>f) An understanding of professional and ethical responsibility.</p> <p>g) An ability to communicate effectively.</p> <p>h) The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.</p> <p>i) A recognition of the need for, and an ability to engage in life-long learning.</p>
	<p><b>Liaison Instruction Outcomes</b></p> <p>Upon request, Library classes will be taught to build information literacy, and independent and life-long learning skills that include:</p> <ol style="list-style-type: none"> <li>1. Learning to effectively and successfully search for, identify, and retrieve authoritative scholarly literature through the USMA Library website, ConnectNY, WorldCat, interlibrary loan, and general and subject databases</li> <li>2. Distinguishing between primary/secondary sources</li> <li>3. Recognizing the difference between scholarly and non-scholarly sources</li> <li>4. Understanding citation/plagiarism and the Dean's Documentation of Academic Work</li> <li>6. Becoming expert users of D/PANE-specific Library resources</li> </ol>

4. **LIAISON SUPPORT:** Support includes orientations for new faculty members, and an introduction to the types of Library instruction that can be provided for D/PANE classes. The Library also supports faculty research and the department liaison officer shall assist instructors with Library resources and research needs.
  
5. **COLLECTION DEVELOPMENT:** The Library supports the D/PANE curriculum with three types of information resources:
  1. Online Research Guide – The Library’s online research guide for PANE incorporates web-based materials in response to specific PANE course goals and objectives, as well as general resources for the academic and professional needs of the field.
  2. Research Databases – The Library offers 18 research and learning databases geared towards PANE subject matter content.
  3. Book Collection section QC1-999 (Physics), TK1-TK999 (Nuclear Engineering). The Library also maintains a rich collection of print and digital books that were acquired after careful review of PANE curriculum needs and current trends in the field. The book collection is updated to keep current with PANE topics and changing course needs. Not including text books, collection development recommendations by D/PANE instructors are welcomed and encouraged.

6. **PUBLISHED SCHOLARSHIP:** The department liaison officer will compile lists of D/PANE faculty members' published works. The Library will collect this information twice a year for IID and the Dean's Celebration of West Point Authors.
  - 1 Jan to 30 Jun (list completed NLT 31 Aug)
  - 1 Jul to 31 Dec (list completed NLT 28 Feb)
7. **COPYRIGHT:** For copyright issues, faculty should consult the Library's internal SharePoint site. This site contains material developed by SJA, the Office of the Dean, and Faculty Council to help faculty understand and manage copyright-related issues in the classroom.
8. **PRINTING:** Arrangements for print production/distribution of course material, including printed course packs or course notebooks in excess of 50 pages shall be made through book issue or the print plant. Cadets shall not be asked or expected to print large documents themselves.
9. **EXPIRATION:** This policy is effective until superseded or rescinded.

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