***PLEASE COMPLETE ENTRIES FOR BOTH THE GRADUATE STANDARDS AND THE CURRICULUM STANDARDS***

Advanced physiology/pathophysiology: \_\_\_\_ contact hours *(120 contact hours required)*

Advanced pharmacology: \_\_\_\_ contact hours *(90 contact hours required)*

Basic and advanced principles in nurse anesthesia: \_\_\_\_ contact hours *(120 contact hours required)*

Research: \_\_\_\_ contact hours *(75 contact hours required)*

Advanced health assessment: \_\_\_\_ contact hours *(45 contact hours required)*

**General Information**

The COA has performed a crosswalk of the *Standards for Accreditation of Nurse Anesthesia Programs – Practice Doctorate* to the 2021 AACN *Essentials: Core Competencies for Professional Nursing Education.* While this review was extensive, it is the COA’s own interpretation. The COA cannot guarantee that each program of nurse anesthesia education will be in full compliance; it is the responsibility of each program to demonstrate it will meet the AACN’s *Essentials.* The crosswalk does not address the level of assessment of the standards or sub-competencies, and the COA notes that AACN is not using or endorsing a specific form, tool, or system for assessment of the sub-competencies.

The following standards share significant characteristics with the corresponding sub-competencies. Curriculum content addressing the standard may address the corresponding sub-competency. Further, the COA notes that not all of the revised *Essentials* sub-competencies will be able to be assessed in practice: some may be evaluated via simulation, case study review, didactic knowledge, or other methods.

The COA does not require completion of this crosswalk; however, if a program chooses to complete this crosswalk, the curriculum **only** needs to be mapped to the revised AACN *Essentials* advanced level nurse **sub-competencies** by course number, name, course outcome, goal or objective. By doing so, this will ensure that the curriculum is also mapped to all higher-level AACN domains, competencies and eight featured concepts (i.e., Clinical Judgment; Communication; Compassionate Care; Diversity, Equity, and Inclusion; Ethics; Evidence-Based Practice; Health Policy; and Social Determinants of Health).

***The applicable sub-competency (-ies) are listed below. See examples at the end of this document.***

| **Graduate Standards**  **(Standard D)**  ***The graduate must demonstrate the ability to:*** | **Applicable Sub-competency in the AACN *Essentials: Core Competencies for Professional Nursing Education*** | **Possible relationship between the graduate standard and the AACN sub-competency** |
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| **D.1 – Be vigilant in the delivery of patient care.** | 2.5i Prioritize risk mitigation strategies to prevent or reduce adverse outcomes.    9.3k Address actual or potential hazards and/or errors.  9.3l Foster a practice environment that promotes accountability for care outcomes. | 2.5i Prioritizes risk mitigation strategies to prevent or reduce adverse outcomes.  **Ex. 1:**  **Ex. 2:**  9.3k Addresses actual or potential hazards and/or errors.  **Ex. 1:**  **Ex. 2:**  9.3l Fosters a practice environment that promotes accountability for care outcomes.  **Ex. 1:**  **Ex. 2:** |
| **D.2 - Refrain from engaging in extraneous activities that abandon or minimize vigilance while providing direct patient care (e.g., texting, reading, emailing, etc.).** | 2.5i Prioritize risk mitigation strategies to prevent or reduce adverse outcomes.  9.3k Address actual or potential hazards and/or errors.  9.3l Foster a practice environment that promotes accountability for care outcomes. |  |
| **D.3 - Conduct a comprehensive equipment check.** | 2.5i Prioritize risk mitigation strategies to prevent or reduce adverse outcomes.  9.3k Address actual or potential hazards and/or errors.  9.3l Foster a practice environment that promotes accountability for care outcomes. |  |
| **D.4 - Protect patients from iatrogenic complications.** | 2.5i Prioritize risk mitigation strategies to prevent or reduce adverse outcomes.  2.8i: Evaluate adequacy of resources available to support self-care management.  9.3k Address actual or potential hazards and/or errors.  9.3l Foster a practice environment that promotes accountability for care outcomes. |  |
| **D.5 - Provide individualized care throughout the perianesthesia continuum.** | 1.1e Translate evidence from nursing science as well as other sciences into practice.  1.1f Demonstrate the application of nursing science to practice.  1.2f Synthesize knowledge from nursing and other disciplines to inform education, practice, and research.  1.2g Apply a systematic and defendable approach to nursing practice decisions.  1.2h Employ ethical decision making to assess, intervene, and evaluate nursing care.  1.2j Translate theories from nursing and other disciplines to practice.  1.3d Integrate foundational and advanced specialty knowledge into clinical reasoning.  1.3e Synthesize current and emerging evidence to influence practice.  1.3f Analyze decision models from nursing and other knowledge domains to improve clinical judgment.  2.1d Promote caring relationships to effect positive outcomes.  2.1e Foster caring relationships.  2.2g Demonstrate advanced communication skills and techniques using a variety of modalities with diverse audiences.  2.2h Design evidence-based, person-centered engagement materials.  2.2i Apply individualized information, such as genetic/genomic, pharmacogenetic, and environmental exposure information in the delivery of personalized health care.  2.2j Facilitate difficult conversations and disclosure of sensitive information.  2.3h Demonstrate that one’s practice is informed by a comprehensive assessment appropriate to the functional area of advanced nursing practice.  2.4f Employ context driven, advanced reasoning to the diagnostic and decision-making process.  2.4g Integrate advanced scientific knowledge to guide decision making.  2.5h Lead and collaborate with an interprofessional team to develop a comprehensive plan of care.  2.5j Develop evidence-based interventions to improve outcomes and safety.  2.5k Incorporate innovations into practice when evidence is not available.  2.6e Model best care practices to the team.  2.6g Promote delivery of care that supports practice at the full scope of education.  2.6h Contribute to the development of policies and processes that promote transparency and accountability.  2.6i Apply current and emerging evidence to the development of care guidelines/tools.  4.1h Apply and critically evaluate advanced knowledge in a defined area of nursing practice.  4.1j Discern appropriate applications of quality  9.2h Foster opportunities for intentional presence in practice.  9.2i Identify innovative and evidence-based practices that promote person-centered care.  9.2k Model professional expectations for therapeutic relationships.  9.2l Facilitate communication that promotes a participatory approach. |  |
| **D.6 - Deliver culturally competent perianesthesia care (see Glossary, “Culturally competent”).** | 2.2g Demonstrate advanced communication skills and techniques using a variety of modalities with diverse audiences  2.2h Design evidence-based, person-centered engagement materials.  2.2j Facilitate difficult conversations and disclosure of sensitive information.  2.7d Analyze data to identify gaps and inequities in care and monitor trends in outcomes.  3.1n Collaborate with appropriate stakeholders to implement a sociocultural and linguistically responsive intervention plan.  3.2e Challenge biases and barriers that impact population health outcomes.  3.5i Demonstrate leadership skills to promote advocacy efforts that include principles of social justice, diversity, equity, and inclusion.  3.6g Participate in ethical decision making that includes diversity, equity, and inclusion in advanced preparedness to protect populations.  9.2j Advocate for practices that advance diversity, equity, and inclusion.  9.3m: Advocate for policies/practices that promote social justice and health equity.  9.3n: Foster strategies that promote a culture of civility across a variety of settings.  9.6d Model respect for diversity, equity, and inclusion for all team members.  9.6e Critique one’s personal and professional practices in the context of nursing’s core values.  9.6f Analyze the impact of structural and cultural influences on nursing’s professional identity.  9.6g Ensure that care provided by self and others is reflective of nursing’s core values.  9.6h Structure the practice environment to facilitate care that is culturally and linguistically appropriate. |  |

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| **D.7 - Provide anesthesia services to all patients across the lifespan (see Glossary, "Anesthesia services" and “Across the lifespan”).** | 1.1e Translate evidence from nursing science as well as other sciences into practice.  1.1f Demonstrate the application of nursing science to practice.  1.2f Synthesize knowledge from nursing and other disciplines to inform education, practice, and research.  1.2g Apply a systematic and defendable approach to nursing practice decisions.  1.2h Employ ethical decision making to assess, intervene, and evaluate nursing care.  1.2j Translate theories from nursing and other disciplines to practice.  1.3d Integrate foundational and advanced specialty knowledge into clinical reasoning.  1.3f Analyze decision models from nursing and other knowledge domains to improve clinical judgment. |  |
| **D.8 - Perform a comprehensive history and physical assessment *(see Glossary, “Comprehensive history and physical assessment”).*** | 2.1d Promote caring relationships to effect positive outcomes.  2.1e Foster caring relationships.  2.2g Demonstrate advanced communication skills and techniques using a variety of modalities with diverse audiences.  2.2h Design evidence-based, person-centered engagement materials.  2.2i Apply individualized information, such as genetic/genomic, pharmacogenetic, and environmental exposure information in the delivery of personalized health care.  2.2j Facilitate difficult conversations and disclosure of sensitive information.  2.3h Demonstrate that one’s practice is informed by a comprehensive assessment appropriate to the functional area of advanced nursing practice.  2.4f Employ context driven, advanced reasoning to the diagnostic and decision-making process.  2.4g Integrate advanced scientific knowledge to guide decision making.  2.5h Lead and collaborate with an interprofessional team to develop a comprehensive plan of care.  2.5i Prioritize risk mitigation strategies to prevent or reduce adverse outcomes.  2.5j Develop evidence-based interventions to improve outcomes and safety.  2.5k Incorporate innovations into practice when evidence is not available.  2.6e Model best care practices to the team.  2.6f Monitor aggregate metrics to assure accountability for care outcomes.  2.6g Promote delivery of care that supports practice at the full scope of education.  2.6h Contribute to the development of policies and processes that promote transparency and accountability.    2.6i Apply current and emerging evidence to the development of care guidelines/tools.  4.1j Discern appropriate applications of quality improvement, research, and evaluation methodologies.  4.2f Use diverse sources of evidence to inform practice.    4.2g Lead the translation of evidence into practice.  9.2h Foster opportunities for intentional presence in practice.  9.2i Identify innovative and evidence-based practices that promote person-centered care.  9.2k Model professional expectations for therapeutic relationships.  9.2l Facilitate communication that promotes a participatory approach. |  |

| **Graduate Standards**  **(Standard D)**  ***The graduate must demonstrate the ability to:*** | **Applicable Sub-competency in the AACN *Essentials: Core Competencies for Professional Nursing Education*** | **Possible relationship between the graduate standard and the AACN sub-competency** |
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| **D.9 - Administer general anesthesia to patients with a variety of physical conditions.** | 1.1e Translate evidence from nursing science as well as other sciences into practice.  1.1f Demonstrate the application of nursing science to practice.  1.2f Synthesize knowledge from nursing and other disciplines to inform education, practice, and research.  1.2g Apply a systematic and defendable approach to nursing practice decisions.  1.2h Employ ethical decision making to assess, intervene, and evaluate nursing care.  1.2j Translate theories from nursing and other disciplines to practice.  1.3d Integrate foundational and advanced specialty knowledge into clinical reasoning.  1.3e Synthesize current and emerging evidence to influence practice.  1.3f Analyze decision models from nursing and other knowledge domains to improve clinical judgment.  2.1d Promote caring relationships to effect positive outcomes.  2.1e Foster caring relationships.  2.2g Demonstrate advanced communication skills and techniques using a variety of modalities with diverse audiences.  2.2h Design evidence-based, person-centered engagement materials.  2.2i Apply individualized information, such as genetic/genomic, pharmacogenetic, and environmental exposure information in the delivery of personalized health care.  2.2j Facilitate difficult conversations and disclosure of sensitive information.  2.3h Demonstrate that one’s practice is informed by a comprehensive assessment appropriate to the functional area of advanced nursing practice.  2.4f Employ context driven, advanced reasoning to the diagnostic and decision-making process.  2.4g Integrate advanced scientific knowledge to guide decision making.  2.5h Lead and collaborate with an interprofessional team to develop a comprehensive plan of care.  2.5j Develop evidence-based interventions to improve outcomes and safety.  2.5k Incorporate innovations into practice when evidence is not available.  2.6e Model best care practices to the team.  2.6g Promote delivery of care that supports practice at the full scope of education.  2.6h Contribute to the development of policies and processes that promote transparency and accountability.  2.6i Apply current and emerging evidence to the development of care guidelines/tools.  4.1h Apply and critically evaluate advanced knowledge in a defined area of nursing practice.  4.1j Discern appropriate applications of quality  9.2h Foster opportunities for intentional presence in practice.  9.2i Identify innovative and evidence-based practices that promote person-centered care.  9.2k Model professional expectations for therapeutic relationships.  9.2l Facilitate communication that promotes a participatory approach. |  |
| **D.10 - Administer general anesthesia for a variety of surgical and medically related procedures.** | 1.1e Translate evidence from nursing science as well as other sciences into practice.  1.1f Demonstrate the application of nursing science to practice.  1.2f Synthesize knowledge from nursing and other disciplines to inform education, practice, and research.  1.2g Apply a systematic and defendable approach to nursing practice decisions.  1.2h Employ ethical decision making to assess, intervene, and evaluate nursing care.  1.2j Translate theories from nursing and other disciplines to practice.  1.3d Integrate foundational and advanced specialty knowledge into clinical reasoning.  1.3e Synthesize current and emerging evidence to Influence practice.  1.3f Analyze decision models from nursing and other knowledge domains to improve clinical judgment.  2.1d Promote caring relationships to effect positive outcomes.  2.1e Foster caring relationships.  2.2g Demonstrate advanced communication skills and techniques using a variety of modalities with diverse audiences.  2.2h Design evidence-based, person-centered engagement materials.  2.2i Apply individualized information, such as genetic/genomic, pharmacogenetic, and environmental exposure information in the delivery of personalized health care.  2.2j Facilitate difficult conversations and disclosure of sensitive information.  2.3h Demonstrate that one’s practice is informed by a comprehensive assessment appropriate to the functional area of advanced nursing practice.  2.4f Employ context driven, advanced reasoning to the diagnostic and decision-making process.  2.4g Integrate advanced scientific knowledge to guide decision making.  2.5h Lead and collaborate with an interprofessional team to develop a comprehensive plan of care.  2.5j Develop evidence-based interventions to improve outcomes and safety.  2.5k Incorporate innovations into practice when evidence is not available.  2.6e Model best care practices to the team.  2.6g Promote delivery of care that supports practice at the full scope of education.  2.6h Contribute to the development of policies and processes that promote transparency and accountability.  2.6i Apply current and emerging evidence to the development of care guidelines/tools.  4.1h Apply and critically evaluate advanced knowledge in a defined area of nursing practice.  4.1j Discern appropriate applications of quality  9.2h Foster opportunities for intentional presence in practice.  9.2i Identify innovative and evidence-based practices that promote person-centered care.  9.2k Model professional expectations for therapeutic relationships.  9.2l Facilitate communication that promotes a participatory approach. |  |
| **D.11 - Administer and manage a variety of regional anesthetics.** | 1.1e Translate evidence from nursing science as well as other sciences into practice.  1.1f Demonstrate the application of nursing science to practice.  1.2f Synthesize knowledge from nursing and other disciplines to inform education, practice, and research.  1.2g Apply a systematic and defendable approach to nursing practice decisions.  1.2h Employ ethical decision making to assess, intervene, and evaluate nursing care.  1.2j Translate theories from nursing and other disciplines to practice.  1.3d Integrate foundational and advanced specialty knowledge into clinical reasoning.  1.3e Synthesize current and emerging evidence to Influence practice.  1.3f Analyze decision models from nursing and other knowledge domains to improve clinical judgment.  2.1d Promote caring relationships to effect positive outcomes.  2.1e Foster caring relationships.  2.2g Demonstrate advanced communication skills and techniques using a variety of modalities with diverse audiences.  2.2h Design evidence-based, person-centered engagement materials.  2.2i Apply individualized information, such as genetic/genomic, pharmacogenetic, and environmental exposure information in the delivery of personalized health care.  2.2j Facilitate difficult conversations and disclosure of sensitive information.  2.3h Demonstrate that one’s practice is informed by a comprehensive assessment appropriate to the functional area of advanced nursing practice.  2.4f Employ context driven, advanced reasoning to the diagnostic and decision-making process.  2.4g Integrate advanced scientific knowledge to guide decision making.  2.5h Lead and collaborate with an interprofessional team to develop a comprehensive plan of care.  2.5j Develop evidence-based interventions to improve outcomes and safety.  2.5k Incorporate innovations into practice when evidence is not available.  2.6e Model best care practices to the team.  2.6g Promote delivery of care that supports practice at the full scope of education.  2.6h Contribute to the development of policies and processes that promote transparency and accountability.  2.6i Apply current and emerging evidence to the development of care guidelines/tools.  4.1h Apply and critically evaluate advanced knowledge in a defined area of nursing practice.  4.1j Discern appropriate applications of quality  9.2h Foster opportunities for intentional presence in practice.  9.2i Identify innovative and evidence-based practices that promote person-centered care.  9.2k Model professional expectations for therapeutic relationships.  9.2l Facilitate communication that promotes a participatory approach. |  |
| **D.12 - Maintain current certification in ACLS and PALS.** | 9.6i Ensure self and others are accountable in upholding moral, legal, and humanistic principles related to health. |  |
| **D.13 - Apply knowledge to practice in decision making and problem solving.** | 1.1e Translate evidence from nursing science as well as other sciences into practice.  1.1f Demonstrate the application of nursing science to practice.  1.2f Synthesize knowledge from nursing and other disciplines to inform education, practice, and research.  1.2g Apply a systematic and defendable approach to nursing practice decisions.  1.2h Employ ethical decision making to assess, intervene, and evaluate nursing care.  1.2j Translate theories from nursing and other disciplines to practice.  1.3d Integrate foundational and advanced specialty knowledge into clinical reasoning.  1.3e Synthesize current and emerging evidence to Influence practice.  1.3f Analyze decision models from nursing and other knowledge domains to improve clinical judgment.  2.1d Promote caring relationships to effect positive outcomes.  2.1e Foster caring relationships.  2.2g Demonstrate advanced communication skills and techniques using a variety of modalities with diverse audiences.  2.2h Design evidence-based, person-centered engagement materials.  2.2i Apply individualized information, such as genetic/genomic, pharmacogenetic, and environmental exposure information in the delivery of personalized health care.  2.2j Facilitate difficult conversations and disclosure of sensitive information.  2.3h Demonstrate that one’s practice is informed by a comprehensive assessment appropriate to the functional area of advanced nursing practice.  2.4f Employ context driven, advanced reasoning to the diagnostic and decision-making process.  2.4g Integrate advanced scientific knowledge to guide decision making.  2.5h Lead and collaborate with an interprofessional team to develop a comprehensive plan of care.  2.5j Develop evidence-based interventions to improve outcomes and safety.  2.5k Incorporate innovations into practice when evidence is not available.  2.6e Model best care practices to the team.  2.6g Promote delivery of care that supports practice at the full scope of education.  2.6h Contribute to the development of policies and processes that promote transparency and accountability.  2.6i Apply current and emerging evidence to the development of care guidelines/tools.  4.1h Apply and critically evaluate advanced knowledge in a defined area of nursing practice.  4.1j Discern appropriate applications of quality  9.2h Foster opportunities for intentional presence in practice.  9.2i Identify innovative and evidence-based practices that promote person-centered care.  9.2k Model professional expectations for therapeutic relationships.  9.2l Facilitate communication that promotes a participatory approach. |  |
| **D.14 - Provide nurse anesthesia services based on evidence-based principles.** | 2.2h Design evidence-based, person-centered engagement materials.  2.5j Develop evidence-based interventions to improve outcomes and safety.  2.7f Synthesize outcome data to inform evidence-based practice, guidelines, and policies.  3.6i Coordinate the implementation of evidence-based infection control measures and proper use of personal protective equipment.  4.1h Apply and critically evaluate advanced knowledge in a defined area of nursing practice.  4.1j Discern appropriate applications of quality improvement, research, and evaluation methodologies.  4.2f Use diverse sources of evidence to inform practice.  4.2g Lead the translation of evidence into practice.  4.2h Address opportunities for innovation and changes in practice.  4.2i Collaborate in the development of new/revised policy or regulation in the light of new evidence.  4.2 j Articulate inconsistencies between practice policies and best evidence.  4.2k Evaluate outcomes and impact of new practices based on the evidence.  6.2g Integrate evidence-based strategies and processes to improve team effectiveness and outcomes.  9.2i Identify innovative and evidence-based practices that promote person-centered care. |  |
| **D.15 - Perform a preanesthetic assessment before providing anesthesia services.** | 2.3h Demonstrate that one’s practice is informed by a comprehensive assessment appropriate to the functional area of advanced nursing practice.  2.4f Employ context driven, advanced reasoning to the diagnostic and decision-making process.  2.4g Integrate advanced scientific knowledge to guide decision making. |  |
| **D.16 - Assume responsibility and accountability for diagnosis.** | 9.3l Foster a practice environment that promotes accountability for care outcomes. |  |
| **D.17 - Formulate an anesthesia plan of care before providing anesthesia services.** | 1.1e Translate evidence from nursing science as well as other sciences into practice.  1.1f Demonstrate the application of nursing science to practice.  1.2f Synthesize knowledge from nursing and other disciplines to inform education, practice, and research.  1.2g Apply a systematic and defendable approach to nursing practice decisions.  1.2h Employ ethical decision making to assess, intervene, and evaluate nursing care.  1.2j Translate theories from nursing and other disciplines to practice.  1.3d Integrate foundational and advanced specialty knowledge into clinical reasoning.  1.3e Synthesize current and emerging evidence to Influence practice.  1.3f Analyze decision models from nursing and other knowledge domains to improve clinical judgment.  2.5h Lead and collaborate with an interprofessional team to develop a comprehensive plan of care.  2.5i Prioritize risk mitigation strategies to prevent or reduce adverse outcomes.  2.5j Develop evidence-based interventions to improve outcomes and safety.  2.5k Incorporate innovations into practice when evidence is not available.  4.1h Apply and critically evaluate advanced knowledge in a defined area of nursing practice.  4.1j Discern appropriate applications of quality improvement, research, and evaluation methodologies.  4.2f Use diverse sources of evidence to inform practice.  4.2g Lead the translation of evidence into practice.  4.2h Address opportunities for innovation and changes in practice.  4.2i Collaborate in the development of new/revised policy or regulation in the light of new evidence. |  |
| **D.18 - Identify and take appropriate action when confronted with anesthetic equipment-related malfunctions.** | 2.5i Prioritize risk mitigation strategies to prevent or reduce adverse outcomes.  2.5j Develop evidence-based interventions to improve outcomes and safety.  9.3k Address actual or potential hazards and/or errors. |  |
| **D.19 - Interpret and utilize data obtained from noninvasive and invasive monitoring modalities.** | 2.3h Demonstrate that one’s practice is informed by a comprehensive assessment appropriate to the functional area of advanced nursing practice. |  |
| **D.20 - Calculate, initiate, and manage fluid and blood component therapy.** | 1.2f Synthesize knowledge from nursing and other disciplines to inform education, practice, and research.  1.2g Apply a systematic and defendable approach to nursing practice decisions.  1.2j Translate theories from nursing and other disciplines to practice.  1.3d Integrate foundational and advanced specialty knowledge into clinical reasoning.  1.3e Synthesize current and emerging evidence to Influence practice.  1.3f Analyze decision models from nursing and other knowledge domains to improve clinical judgment.  2.1d Promote caring relationships to effect positive outcomes.  2.1e Foster caring relationships.  2.2i Apply individualized information, such as genetic/genomic, pharmacogenetic, and environmental exposure information in the delivery of personalized health care.  2.3h Demonstrate that one’s practice is informed by a comprehensive assessment appropriate to the functional area of advanced nursing practice.  2.4f Employ context driven, advanced reasoning to the diagnostic and decision-making process.  2.4g Integrate advanced scientific knowledge to guide decision making.  2.5h Lead and collaborate with an interprofessional team to develop a comprehensive plan of care.  2.5j Develop evidence-based interventions to improve outcomes and safety.  2.5k Incorporate innovations into practice when evidence is not available.  2.6i Apply current and emerging evidence to the development of care guidelines/tools.  4.1h Apply and critically evaluate advanced knowledge in a defined area of nursing practice.  4.1j Discern appropriate applications of quality  9.2h Foster opportunities for intentional presence in practice.  9.2i Identify innovative and evidence-based practices that promote person-centered care. |  |
| **D.21 - Recognize, evaluate, and manage the physiological responses coincident to the provision of anesthesia services.** | 1.1f Demonstrate the application of nursing science to practice.  1.2f Synthesize knowledge from nursing and other disciplines to inform education, practice, and research.  1.2g Apply a systematic and defendable approach to nursing practice decisions.  1.2h Employ ethical decision making to assess, intervene, and evaluate nursing care.  1.2j Translate theories from nursing and other disciplines to practice.  1.3d Integrate foundational and advanced specialty knowledge into clinical reasoning.  1.3e Synthesize current and emerging evidence to influence practice.  1.3f Analyze decision models from nursing and other knowledge domains to improve clinical judgment.  2.2g Demonstrate advanced communication skills and techniques using a variety of modalities with diverse audiences.  2.2i Apply individualized information, such as genetic/genomic, pharmacogenetic, and environmental exposure information in the delivery of personalized health care.  2.3h Demonstrate that one’s practice is informed by a comprehensive assessment appropriate to the functional area of advanced nursing practice.  2.4f Employ context driven, advanced reasoning to the diagnostic and decision-making process.  2.4g Integrate advanced scientific knowledge to guide decision making.  2.5h Lead and collaborate with an interprofessional team to develop a comprehensive plan of care.  2.5j Develop evidence-based interventions to improve outcomes and safety.  2.5k Incorporate innovations into practice when evidence is not available.  2.6e Model best care practices to the team.  2.6g Promote delivery of care that supports practice at the full scope of education.  2.6i Apply current and emerging evidence to the development of care guidelines/tools.  4.1h Apply and critically evaluate advanced knowledge in a defined area of nursing practice.  4.1j Discern appropriate applications of quality  9.2h Foster opportunities for intentional presence in practice.  9.2i Identify innovative and evidence-based practices that promote person-centered care.  9.2l Facilitate communication that promotes a participatory approach. |  |
| **D.22 - Recognize and appropriately manage complications that occur during the provision of anesthesia services.** | 1.1f Demonstrate the application of nursing science to practice.  1.2f Synthesize knowledge from nursing and other disciplines to inform education, practice, and research.  1.2g Apply a systematic and defendable approach to nursing practice decisions.  1.2h Employ ethical decision making to assess, intervene, and evaluate nursing care.  1.2j Translate theories from nursing and other disciplines to practice.  1.3d Integrate foundational and advanced specialty knowledge into clinical reasoning.  1.3e Synthesize current and emerging evidence to influence practice.  1.3f Analyze decision models from nursing and other knowledge domains to improve clinical judgment.  2.2g Demonstrate advanced communication skills and techniques using a variety of modalities with diverse audiences.  2.2i Apply individualized information, such as genetic/genomic, pharmacogenetic, and environmental exposure information in the delivery of personalized health care.  2.3h Demonstrate that one’s practice is informed by a comprehensive assessment appropriate to the functional area of advanced nursing practice.  2.4f Employ context driven, advanced reasoning to the diagnostic and decision-making process.  2.4g Integrate advanced scientific knowledge to guide decision making.  2.5h Lead and collaborate with an interprofessional team to develop a comprehensive plan of care.  2.5j Develop evidence-based interventions to improve outcomes and safety.  2.5k Incorporate innovations into practice when evidence is not available.  2.6e Model best care practices to the team.  2.6g Promote delivery of care that supports practice at the full scope of education.  2.6i Apply current and emerging evidence to the development of care guidelines/tools.  4.1h Apply and critically evaluate advanced knowledge in a defined area of nursing practice.  4.1j Discern appropriate applications of quality  9.2h Foster opportunities for intentional presence in practice.  9.2i Identify innovative and evidence-based practices that promote person-centered care.  9.2l Facilitate communication that promotes a participatory approach. |  |
| **D.23 - Use science-based theories and concepts to analyze new practice approaches.** | 2.2h Design evidence-based, person-centered engagement materials.  2.5j Develop evidence-based interventions to improve outcomes and safety.  2.7f Synthesize outcome data to inform evidence-based practice, guidelines, and policies.  3.6i Coordinate the implementation of evidence-based infection control measures and proper use of personal protective equipment.  4.1h Apply and critically evaluate advanced knowledge in a defined area of nursing practice.  4.1j Discern appropriate applications of quality improvement, research, and evaluation methodologies.  4.2f Use diverse sources of evidence to inform practice.  4.2g Lead the translation of evidence into practice.  4.2h Address opportunities for innovation and changes in practice.  4.2i Collaborate in the development of new/revised policy or regulation in the light of new evidence.  4.2 j Articulate inconsistencies between practice policies and best evidence.  4.2k Evaluate outcomes and impact of new practices based on the evidence.  6.2g Integrate evidence-based strategies and processes to improve team effectiveness and outcomes.  9.2i Identify innovative and evidence-based practices that promote person-centered care. |  |
| **D.24 - Pass the national certification examination (NCE) administered by NBCRNA.** | 9.6i Ensure self and others are accountable in upholding moral, legal, and humanistic principles related to health. |  |
| **D.25 - Utilize interpersonal and communication skills that result in the effective exchange of information and collaboration with patients and their families*.*** | 2.1d Promote caring relationships to effect positive outcomes.  2.1e Foster caring relationships.  2.2g Demonstrate advanced communication skills and techniques using a variety of modalities with diverse audiences.  2.2h Design evidence-based, person-centered engagement materials.  2.2i Apply individualized information, such as genetic/genomic, pharmacogenetic, and environmental exposure information in the delivery of personalized health care. |  |
| **D.26 - Utilize interpersonal and communication skills that result in the effective interprofessional exchange of information and collaboration with other healthcare professionals.** | 2.2g Demonstrate advanced communication skills and techniques using a variety of modalities with diverse audiences.  2.2h Design evidence-based, person-centered engagement materials.  2.2i Apply individualized information, such as genetic/genomic, pharmacogenetic, and environmental exposure information in the delivery of personalized health care.  2.8j: Foster partnerships with community organizations to support self-care management.  4.1k Collaborate to advance one’s scholarship.  6.1g Evaluate effectiveness of interprofessional communication tools and techniques to support and improve the efficacy of team-based interactions.  6.1h Facilitate improvements in interprofessional communications of individual information (e.g. EHR).  6.1i Role model respect for diversity, equity, and inclusion in team-based communications.  6.1j Communicate nursing’s unique disciplinary knowledge to strengthen interprofessional partnerships.  6.1k Provide expert consultation for other members of the healthcare team in one’s area of practice.  6.1l Demonstrate capacity to resolve interprofessional conflict.  6.2h Evaluate the impact of team dynamics and performance on desired outcomes.  6.2i Reflect on how one’s role and expertise influences team performance.  6.2j Foster positive team dynamics to strengthen desired outcomes.  6.4e Practice self-assessment to mitigate conscious and implicit biases toward other team members.  6.4f Foster an environment that supports the constructive sharing of multiple perspectives and enhances interprofessional learning.  6.4g Integrate diversity, equity, and inclusion into team practices.  6.4h Manage disagreements, conflicts, and challenging conversations among team members.  6.4i Promote an environment that advances interprofessional learning. |  |
| **D.27 - Respect the dignity and privacy of patients while maintaining confidentiality in the delivery of interprofessional care.** | 2.1d Promote caring relationships to effect positive outcomes.  2.1e Foster caring relationships.  9.2h Foster opportunities for intentional presence in practice.  9.2i Identify innovative and evidence-based practices that promote person-centered care.  9.2k Model professional expectations for therapeutic relationships.  9.2l Facilitate communication that promotes a participatory approach. |  |
| **D.28 - Maintain comprehensive, timely, accurate, and legible healthcare records.** | 8.4f Employ electronic health, mobile health, and telehealth systems to enable quality, ethical, and efficient patient care.  8.5g Apply risk mitigation and security strategies to reduce misuse of information and communication technology. |  |
| **D.29 - Transfer the responsibility for care of the patient to other qualified providers in a manner that assures continuity of care and patient safety.** | 2.6j Ensure accountability throughout transitions of care across the health continuum.  2.9f Evaluate communication pathways among providers and others across settings, systems, and communities.  2.9g Develop strategies to optimize care coordination and transitions of care.  6.1g Evaluate effectiveness of interprofessional communication tools and techniques to support and improve the efficacy of team-based interactions.  6.1i Role model respect for diversity, equity, and inclusion in team-based communications.  6.1j Communicate nursing’s unique disciplinary knowledge to strengthen interprofessional partnerships. |  |
| **D.30 - Teach others.** | 2.2g Demonstrate advanced communication skills and techniques using a variety of modalities with diverse audiences.  2.2h Design evidence-based, person-centered engagement materials.  2.8f Develop strategies that promote self-care management.  2.8g Incorporate the use of current and emerging technologies to support self-care management.  2.8h Employ counseling techniques, including motivational interviewing, to advance wellness and self-care management.  4.1l Disseminate one’s scholarship to diverse audiences using a variety of approaches or modalities.  4.1m Advocate within the interprofessional team and with other stakeholders for the contributions of nursing scholarship.  4.2g Lead the translation of evidence into practice.  6.1g Evaluate effectiveness of interprofessional communication tools and techniques to support and improve the efficacy of team-based interactions.  6.1k Provide expert consultation for other members of the healthcare team in one’s area of practice.  6.3d Direct interprofessional activities and initiatives.  10.2h Mentor others in the development of their professional growth and accountability. |  |
| **D.31 - Integrate critical and reflective thinking in his or her leadership approach.** | 10.2g Demonstrate cognitive flexibility in managing change within complex environments.  10.3j Provide leadership to advance the nursing profession.  10.3k Influence intentional change guided by leadership principles and theories.  10.3o Demonstrate leadership skills in times of uncertainty and crisis. |  |
| **D.32 - Provide leadership that facilitates intraprofessional and interprofessional collaboration.** | 2.8j: Foster partnerships with community organizations to support self-care management.  2.9h: Guide the coordination of care across health systems.  9.1i Model ethical behaviors in practice and leadership roles.  9.2h Foster opportunities for intentional presence in practice.  9.2i Identify innovative and evidence-based practices that promote person-centered care.  9.2j Advocate for practices that advance diversity, equity, and inclusion.  9.2k Model professional expectations for therapeutic relationships.  9.2l Facilitate communication that promotes a participatory approach.  9.3j Demonstrate leadership skills when participating in professional activities and/or organizations.  9.3o Lead in the development of opportunities for professional and interprofessional activities.  9.5f Articulate nursing’s unique professional identity to other interprofessional team members and the public.  9.5g Evaluate practice environment to ensure that nursing core values are demonstrated.  9.5h Identify opportunities to lead with moral courage to influence team decision-making.  9.5i Engage in professional organizations that reflect nursing’s values and identity.  9.6d Model respect for diversity, equity, and inclusion for all team members.  9.6e Critique one’s personal and professional practices in the context of nursing’s core values.  9.6f Analyze the impact of structural and cultural influences on nursing’s professional identity.  9.6g Ensure that care provided by self and others is reflective of nursing’s core values.  9.6h Structure the practice environment to facilitate care that is culturally and linguistically appropriate.  10.2g Demonstrate cognitive flexibility in managing change within complex environments.  10.2h Mentor others in the development of their professional growth and accountability.  10.2i Foster activities that support a culture of lifelong learning.  10.2j Expand leadership skills through professional service.  10.3j Provide leadership to advance the nursing profession.  10.3k Influence intentional change guided by leadership principles and theories.  10.3l Evaluate the outcomes of intentional change.  10.3m Evaluate strategies/methods for peer review.  10.3n Participate in the evaluation of other members of the care team.  10.3o Demonstrate leadership skills in times of uncertainty and crisis. |  |
| **D.33 - Adhere to the *Code of Ethics for the Certified Registered Nurse Anesthetist*.** | 1.2h Employ ethical decision making to assess, intervene, and evaluate nursing care.  1.2i Demonstrate socially responsible leadership.  2.6e Model best care practices to the team.  2.6h Contribute to the development of policies and processes that promote transparency and accountability.  2.6j Ensure accountability throughout transitions of care across the health continuum.  4.3e Identify and mitigate potential risks and areas of ethical concern in the conduct of scholarly activities.  4.3f Apply IRB guidelines throughout the scholarship process.  4.3g Ensure the protection of participants in the conduct of scholarship.  4.3h Implement processes that support ethical conduct in practice and scholarship.  4.3i Apply ethical principles to the dissemination of nursing scholarship.  9.1h Analyze current policies and practices in the context of an ethical framework.  9.1i Model ethical behaviors in practice and leadership roles.  9.1j Suggest solutions when unethical behaviors are observed.  9.1k Assume accountability for working to resolve ethical dilemmas.. |  |
| **D.34 - Interact on a professional level with integrity.** | 9.1h Analyze current policies and practices in the context of an ethical framework.  9.1i Model ethical behaviors in practice and leadership roles.  9.1j Suggest solutions when unethical behaviors are observed.  9.1k Assume accountability for working to resolve ethical dilemmas. |  |
| **D.35 - Apply ethically sound decision-making processes.** | 9.1h Analyze current policies and practices in the context of an ethical framework.  9.1i Model ethical behaviors in practice and leadership roles.  9.1j Suggest solutions when unethical behaviors are observed.  9.1k Assume accountability for working to resolve ethical dilemmas. |  |
| **D.36 - Function within legal and regulatory requirements.** | 9.4b Adhere to the registered nurse scope and standards of practice.  9.6i Ensure self and others are accountable in upholding moral, legal, and humanistic principles related to health. |  |
| **D.37 - Accept responsibility and accountability for his or her practice.** | 2.6e Model best care practices to the team.  2.6h Contribute to the development of policies and processes that promote transparency and accountability.  2.6j Ensure accountability throughout transitions of care across the health continuum. |  |
| **D.38 - Provide anesthesia services to patients in a cost-effective manner.** | 3.3c Analyze cost-benefits of selected population-based interventions.  3.3d Collaborate with partners to secure and leverage resources necessary for effective, sustainable interventions.  3.3e Advocate for interventions that maximize cost-effective, accessible, and equitable resources for populations.  3.3f Incorporate ethical principles in resource allocation in achieving equitable health.  7.2h: Design practices that enhance value, access, quality, and cost-effectiveness. |  |
| **D.39 - Demonstrate knowledge of wellness and chemical dependency in the anesthesia profession through completion of content in wellness and chemical dependency *(see Glossary, "Chemical dependency and wellness").*** | 10.1c Contribute to an environment that promotes self-care, personal health, and well-being.  10.1d Evaluate the workplace environment to determine level of health and well-being. |  |
| **D.40 - Inform the public of the role and practice of the CRNA.** | 9.4d Advocate for polices that enable nurses to practice to the full extent of their education.  9.4f Evaluate the effect of legal and regulatory policies on nursing practice and healthcare outcomes.  9.4g Analyze efforts to change legal and regulatory policies that improve nursing practice and health outcomes.  9.4h Participate in the implementation of policies and regulations to improve the professional practice environment and healthcare outcomes.  9.5f Articulate nursing’s unique professional identity to other interprofessional team members and the public.  9.5g Evaluate practice environment to ensure that nursing core values are demonstrated.  9.5h Identify opportunities to lead with moral courage to influence team decision-making.  9.5i Engage in professional organizations that reflect nursing’s values and identity.  10.1d Evaluate the workplace environment to determine level of health and well-being. |  |
| **D.41 - Evaluate how public policy making strategies impact the financing and delivery of healthcare.** | 2.9i Analyze system-level and public policy influence on care coordination.  3.4f Identify opportunities to influence the policy process.  3.4j Assess the impact of policy changes.  3.4k Evaluate the ability of policy to address disparities and inequities within segments of the population.  3.4l Evaluate the risks to population health associated with globalization.  7.3f Design system improvement strategies based on performance data and metrics. |  |
| **D.42 - Advocate for health policy change to improve patient care.** | 3.2g Lead partnerships to improve population health outcomes.  3.3e Advocate for interventions that maximize cost-effective, accessible, and equitable resources for populations.  3.4f Identify opportunities to influence the policy process.  3.4g Design comprehensive advocacy strategies to support the policy process.  3.4h Engage in strategies to influence policy change.  3.4i Contribute to policy development at the system, local, regional, or national levels.  3.4j Assess the impact of policy changes.  3.4k Evaluate the ability of policy to address disparities and inequities within segments of the population.  3.4l Evaluate the risks to population health associated with globalization.  3.5f Appraise advocacy priorities for a population.  3.5g Strategize with an interdisciplinary group and others to develop effective advocacy approaches.  3.5h Engage in relationship-building activities with stakeholders at any level of influence, including system, local, state, national, and/or global.  3.5i Demonstrate leadership skills to promote advocacy efforts that include principles of social justice, diversity, equity, and inclusion.  3.6f Collaboratively initiate rapid response activities to protect population health.  7.2i Advocate for healthcare economic policies and regulations to enhance value, quality, and cost-effectiveness.  7.2j Formulate, document, and disseminate the return on investment for improvement initiatives collaboratively with an interdisciplinary team.  7.2k Recommend system-wide strategies that improve cost- effectiveness considering structure, leadership, and workforce needs.  7.2l Evaluate health policies based on an ethical framework considering cost-effectiveness, health equity, and care outcomes.  9.4d Advocate for polices that enable nurses to practice to the full extent of their education.  9.4e Assess the interaction between regulatory agency requirements and quality, fiscal, and value-based indicators.  9.4f Evaluate the effect of legal and regulatory policies on nursing practice and healthcare outcomes  9.4g Analyze efforts to change legal and regulatory policies that improve nursing practice and health outcomes. |  |
| **D.43 - Advocate for health policy change to advance the specialty of nurse anesthesia.** | 1.1g Integrate an understanding of nursing history in advancing nursing’s influence in health care.  4.1m Advocate within the interprofessional team and with other stakeholders for the contributions of nursing scholarship.  9.4d Advocate for polices that enable nurses to practice to the full extent of their education.  9.4e Assess the interaction between regulatory agency requirements and quality, fiscal, and value-based indicators.  9.4f Evaluate the effect of legal and regulatory policies on nursing practice and healthcare outcomes  9.4g Analyze efforts to change legal and regulatory policies that improve nursing practice and health outcomes.  9.3i Advocate for nursing’s professional responsibility for ensuring optimal care outcomes. |  |
| **D.44 - Analyze strategies to improve patient outcomes and quality of care.** | 2.7d Analyze data to identify gaps and inequities in care and monitor trends in outcomes.  2.7e Monitor epidemiological and system-level aggregate data to determine healthcare outcomes and trends.  2.8j: Foster partnerships with community organizations to support self-care management.  2.9j Participate in system-level change to improve care coordination across settings.  3.2d: Ascertain collaborative opportunities for individuals and organizations to improve population health.  3.2h: Assess preparation and readiness of partners to organize during natural and manmade disasters.  3.6h: Collaborate with interdisciplinary teams to lead preparedness and mitigation efforts to protect population health with attention to the most vulnerable populations.  3.6j: Contribute to system-level planning, decision making, and evaluation for disasters and public health emergencies.  5.1i Establish and incorporate data driven benchmarks to monitor system performance.  5.1j Use national safety resources to lead team-based change initiatives.  5.1k Integrate outcome metrics to inform change and policy recommendations.  5.1lCollaborate in analyzing organizational process improvement initiatives.  5.1m Lead the development of a business plan for quality improvement initiatives.  5.1n Advocate for change related to financial policies that impact the relationship between economics and quality care delivery.  5.1o Advance quality improvement practices through dissemination of outcomes.  5.2g Evaluate the alignment of system data and comparative patient safety benchmarks.  5.2h Lead analysis of actual errors, near misses, and potential situations that would impact safety.  5.2i Design evidence-based interventions to mitigate risk.  5.2j Evaluate emergency preparedness system-level plans to protect safety.  5.3e Advocate for structures, policies, and processes that promote a culture of safety and prevent workplace risks and injury.  5.3f Foster a just culture reflecting civility and respect.  5.3g Create a safe and transparent culture for reporting incidents.  5.3h Role model and lead well-being and resiliency for self and team.  10.3m Evaluate strategies/methods for peer review.  10.3n Participate in the evaluation of other members of the care team. |  |
| **D.45 - Analyze health outcomes in a variety of populations.** | 2.6f Monitor aggregate metrics to assure accountability for care outcomes.  3.1j Assess the efficacy of a system’s capability to serve a target sub-population’s healthcare needs.  3.1k Analyze primary and secondary population health data for multiple populations against relevant benchmarks.  3.1l:Use established or evolving methods to determine population-focused priorities for care.  3.1m: Develop a collaborative approach with relevant stakeholders to address population healthcare needs, including evaluation methods.  3.2f: Evaluate the effectiveness of partnerships for achieving health equity.  3.2g Lead partnerships to improve population health outcomes.  7.1f Participate in system-wide initiatives that improve care delivery and/or outcomes.  7.1g Analyze system-wide processes to optimize outcomes.  7.1h Design policies to impact health equity and structural racism within systems, communities, and populations. |  |
| **D.46 - Analyze health outcomes in a variety of clinical settings.** | 2.6f Monitor aggregate metrics to assure accountability for care outcomes.  4.2k Evaluate outcomes and impact of new practices based on the evidence.  10.3l Evaluate the outcomes of intentional change |  |
| **D.47 - Analyze health outcomes in a variety of systems.** | 3.2g Lead partnerships to improve population health outcomes.  7.1e Participate in organizational strategic planning.  7.1g Analyze system-wide processes to optimize outcomes.  7.3e Apply innovative and evidence-based strategies focusing on system preparedness and capabilities |  |
| **D.48 - Disseminate scholarly work.** | 4.1i Engage in scholarship to advance health  4.1l Disseminate one’s scholarship to diverse audiences using a variety of approaches or modalities.  10.3q Advocate for the nursing profession in a manner that is consistent, positive, relevant, accurate, and distinctive. |  |
| **D.49 - Use information systems/technology to support and improve patient care.** | 3.2g Lead partnerships to improve population health outcomes.  8.1g Identify best evidence and practices for the application of information and communication technologies to support care.  8.1h Evaluate the unintended consequences of information and communication technologies on care processes, communications, and information flow across care settings.  8.1i Propose a plan to influence the selection and implementation of new information and communication technologies.  8.1j Explore the fiscal impact of information and communication technologies on health care.  8.1k Identify the impact of information and communication technologies on workflow processes and healthcare outcomes.  8.2f Generate information and knowledge from health information technology databases.  8.2g Evaluate the use of communication technology to improve consumer health information literacy.  8.2h Use standardized data to evaluate decision-making and outcomes across all systems levels.  8.2i Clarify how the collection of standardized data advances the practice, understanding, and value of nursing and supports care.  8.2j Interpret primary and secondary data and other information to support care.  8.3g Evaluate the use of information and communication technology to address needs, gaps, and inefficiencies in care.  8.4e Assess best practices for the use of advanced information and communication technologies to support patient and team communications.  8.4f Employ electronic health, mobile health, and telehealth systems to enable quality, ethical, and efficient patient care.  8.4g Evaluate the impact of health information exchange, interoperability, and integration to support patient-centered care.  8.5g Apply risk mitigation and security strategies to reduce misuse of information and communication technology.  8.5h Assess potential ethical and legal issues associated with the use of information and communication technology.  8.5i Recommend strategies to protect health information when using communication and information technology.  8.5j Promote patient engagement with their personal health data.  8.5k Advocate for policies and regulations that support the appropriate use of technologies impacting health care.  8.5l Analyze the impact of federal and state policies and regulation on health data and technology in care settings. |  |

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| **D.50 - Use information systems/technology to support and improve healthcare systems.** | 3.2g Lead partnerships to improve population health outcomes.  7.3e Apply innovative and evidence-based strategies focusing on system preparedness and capabilities  7.3f Design system improvement strategies based on performance data and metrics  8.1g Identify best evidence and practices for the application of information and communication technologies to support care.  8.1h Evaluate the unintended consequences of information and communication technologies on care processes, communications, and information flow across care settings.  8.1i Propose a plan to influence the selection and implementation of new information and communication technologies.  8.1j Explore the fiscal impact of information and communication technologies on health care.  8.1k Identify the impact of information and communication technologies on workflow processes and healthcare outcomes.  8.2f Generate information and knowledge from health information technology databases.  8.2g Evaluate the use of communication technology to improve consumer health information literacy.  8.2h Use standardized data to evaluate decision-making and outcomes across all systems levels.  8.2i Clarify how the collection of standardized data advances the practice, understanding, and value of nursing and supports care.  8.2j Interpret primary and secondary data and other information to support care.  8.3h Formulate a plan to influence decision-making processes for selecting, implementing, and evaluating support tools.  8.3i Appraise the role of information and communication technologies in engaging the patient and supporting the nurse-patient relationship.  8.3j Evaluate the potential uses and impact of emerging technologies in health care.  8.3k Pose strategies to reduce inequities in digital access to data and information.  8.4e Assess best practices for the use of advanced information and communication technologies to support patient and team communications.  8.4f Employ electronic health, mobile health, and telehealth systems to enable quality, ethical, and efficient patient care.  8.4g Evaluate the impact of health information exchange, interoperability, and integration to support patient-centered care.  8.5g Apply risk mitigation and security strategies to reduce misuse of information and communication technology.  8.5h Assess potential ethical and legal issues associated with the use of information and communication technology.  8.5i Recommend strategies to protect health information when using communication and information technology.  8.5j Promote patient engagement with their personal health data.  8.5k Advocate for policies and regulations that support the appropriate use of technologies impacting health care.  8.5l Analyze the impact of federal and state policies and regulation on health data and technology in care settings. |  |
| **D.51 - Analyze business practices encountered in nurse anesthesia delivery settings.** | 5.1m Lead the development of a business plan for quality improvement initiatives.  7.2g Analyze relevant internal and external factors that drive healthcare costs and reimbursement.  7.3e Apply innovative and evidence-based strategies focusing on system preparedness and capabilities.  7.3f Design system improvement strategies based on performance data and metrics.  7.3g Manage change to sustain system effectiveness.  7.3h Design system improvement strategies that address internal and external system processes and structures that perpetuate structural racism and other forms of discrimination in healthcare systems. |  |

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| **Policy Standards**  **(Standard G)**  ***The graduate must demonstrate the ability to:*** | **Applicable Sub-competency in the AACN** *Essentials: Core Competencies for Professional Nursing Education* | **Possible relationship between the graduate standard and the AACN sub-competency** |
| G.4 Policies and procedures that are fair equitable and do not discriminate are defined (see Glossary "Nondiscriminatory practice"). | **10.3p**: Advocate for the promotion of social justice and eradication of structural racism and systematic inequity in nursing and society. |  |

The following provides an example of a potential crosswalk of a curriculum to:

* A graduate standard (D.23)
* Two curriculum standards: E.2.1 and E.2.2 (Advanced pharmacology, advanced physiology/pathophysiology, and advanced health assessment only).

**EXAMPLE of crosswalking standard D.23 to course and revised AACN Essentials**

| **Graduate Standards** | **Course # / Title / Credit Hours** | **Applicable Course Outcomes** | **Applicable Sub-competency in the AACN *Essentials: Core Competencies for Professional Nursing Education*** |
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| D.23. Use science-based theories and concepts to analyze new practice approaches. | ANES123 Advanced Physiology & Pathophysiology, 3 cr. | At the conclusion of this course, learners will demonstrate:  1. Ability to discuss the internal and external factors that affect specific physiological states along the health & illness continuum.  2. Knowledge of the epidemiology, etiology, pathophysiology, and clinical and laboratory manifestations of specific disease processes.  3. Application of diagnostic reasoning in assessing and evaluating clients with specific pathophysiologic alterations. | 2.2h Design evidence-based, person-centered engagement materials.  2.5j Develop evidence-based interventions to improve outcomes and safety.  2.7f Synthesize outcome data to inform evidence-based practice, guidelines, and policies.  3.6i Coordinate the implementation of evidence-based infection control measures and proper use of personal protective equipment.  4.1h Apply and critically evaluate advanced knowledge in a defined area of nursing practice.  4.1j Discern appropriate applications of quality improvement, research, and evaluation methodologies.  4.2f Use diverse sources of evidence to inform practice.  4.2g Lead the translation of evidence into practice.  4.2h Address opportunities for innovation and changes in practice.  4.2i Collaborate in the development of new/revised policy or regulation in the light of new evidence.  4.2 j Articulate inconsistencies between practice policies and best evidence.  4.2k Evaluate outcomes and impact of new practices based on the evidence.  6.2g Integrate evidence-based strategies and processes to improve team effectiveness and outcomes.  9.2i Identify innovative and evidence-based practices that promote person-centered care. |

| **Curriculum Standards**  **(Standard E.2)**  ***The curriculum is designed to focus on the full scope of nurse anesthesia practice including:*** | **Course # / Title / Credit Hours**  ***(mark with \* if course meets COA definition of distance education course;***  ***example: \*ANES123)*** | **Applicable Course Outcomes** | **Contact Hours for Content Requirements**  **(if applicable)** | **Applicable Sub-competency in the AACN *Essentials: Core Competencies for Professional Nursing Education*** |
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| * **E.2.1 – Courses** * Advanced Physiology/Pathophysiology * Advanced Pharmacology * Advanced Health Assessment | * ANE 8603 Advanced Anatomy, Physiology and Pathophysiology 1/6 credit hours * ANE 8404 Advanced Anatomy, Physiology and Pathophysiology 2/4 credit hours * ANE 8423 Advanced Pharmacology/4 credit hours * ANE 8331 Advanced Health and Physical Assessment/3 credit hours | See below for the applicable course outcomes for the courses described in E.2.1 | * ANE 8603 Advanced Anatomy, Physiology and Pathophysiology 90 contact hours * ANE 8404 Advanced Anatomy, Physiology and Pathophysiology 2 60 contact hours * ANE 8423 Advanced Pharmacology - Course SyllabusFall 2020 60 contact hours * ANE 8331 Advanced Health and Physical Assessment 45 contact hours | 1.2f Synthesize knowledge from nursing and other disciplines to inform education, practice, and research. |
| **E.2.2 – Content**   * **Advanced Physiology/Pathophysiology** | ANE 8603 Advanced Anatomy, Physiology and Pathophysiology 1/6 credit hours  ANE 8404 Advanced Anatomy, Physiology and Pathophysiology 2/4 credit hours | The student will demonstrate, through examination, a mastery of knowledge related to selected topics regarding cellular anatomy, physiology and pathophysiology of the human body.  The student will demonstrate, through examination, a mastery of knowledge related to selected topics regarding renal anatomy, physiology and pathophysiology of the human body.  The student will demonstrate, through examination, a mastery of knowledge related to selected topics regarding neural anatomy, physiology and pathophysiology of the human body.  The student will demonstrate, through examination, a mastery of knowledge related to selected topics regarding musculoskeletal anatomy, physiology and pathophysiology of the human body.  The student will demonstrate, through examination, a mastery of knowledge related to selected topics regarding cardiovascular anatomy, physiology and pathophysiology of the human body.  The student will demonstrate, through examination, a mastery of knowledge related to selected topics regarding gastrointestinal & hepatic anatomy, physiology and pathophysiology of the human body.  The student will demonstrate, through examination, a mastery of knowledge related to selected topics regarding hematologic anatomy, physiology and pathophysiology of the human body.  The student will demonstrate, through examination, a mastery of knowledge related to selected topics regarding cellular anatomy, physiology and pathophysiology of the human body.  The student will demonstrate, through examination, a mastery of knowledge related to selected topics regarding renal anatomy, physiology and pathophysiology of the human body.  The student will demonstrate, through examination, a mastery of knowledge related to selected topics regarding neural anatomy, physiology and pathophysiology of the human body.  The student will demonstrate, through examination, a mastery of knowledge related to selected topics regarding musculoskeletal anatomy, physiology and pathophysiology of the human body.  The student will demonstrate, through examination, a mastery of knowledge related to selected topics regarding cardiovascular anatomy, physiology and pathophysiology of the human body.  The student will demonstrate, through examination, a mastery of knowledge related to selected topics regarding pulmonary anatomy, physiology and pathophysiology of the human body.  The student will demonstrate, through examination, a mastery of knowledge related to selected topics regarding hematologic anatomy, physiology and pathophysiology of the human body. | ANE 8603 Advanced Anatomy, Physiology, and Pathophysiology: 90 contact hours  ANE 8404 Advanced Anatomy, Physiology and Pathophysiology 60 contact hours | 1.2f Synthesize knowledge from nursing and other disciplines to inform education, practice, and research. |
| **E.2.2 – Content**   * **Advanced Pharmacology** | ANE 8423, Advanced Pharmacology/4 credit hours | Differentiate various components of pharmacology including pharmacotherapy, pharmacokinetics, physiology, and toxicology  Describe pathogenesis of specific disease states and goals of pharmacologic therapy.  Identify various medications’ mechanism of action, adverse reactions, and drug interactions.  Review non-pharmacologic interventions necessary for maximizing therapeutic outcomes. | 60 contact hours | 1.2f Synthesize knowledge from nursing and other disciplines to inform education, practice, and research. |
| **E.2.2 – Content**   * **Advanced Health Assessment** | ANE 8331 Advanced Health and Physical Assessment/3 credit hours | Perform a focused comprehensive anesthesia specific physical exam of the pre-operative patient in a concise and systematic manner.  Demonstrate knowledge of the process of diagnostic reasoning and apply it to accurately interpret the data collected in the assessment process.  Collect, analyze, interpret, and apply data related to the patient’s health history, surgical history, and surgical procedure.  Differentiate between normal and abnormal assessment data.  Utilize appropriate communication methods for obtaining an anesthesia history and discussing the anesthesia care plan with the patient and surgical care team.  Describe the underlying pathophysiology of selected conditions affecting the major physiological systems of critical importance to the anesthesia practitioner. | 45 contact hours | 1.2f Synthesize knowledge from nursing and other disciplines to inform education, practice, and research. |