

# Bachelor of Science in Radiologic Sciences (B.S.R.S.) Core Curriculum

# **Bachelor of Science in Radiologic Sciences (B.S.R.S.)**

## **Core Content**

The professional practice of radiography at the bachelor's level requires additional knowledge and skills generally not obtained in associate-level radiography programs. This additional section of content presents curriculum elements that are considered essential for technologists who graduate from B.S.R.S programs.

### **Objectives**

Describe the role of emotional intelligence in effective communication.

Demonstrate a variety of professional communication skills.

Explain conflict management techniques.

List the elements of an effective presentation.

Recognize that people have different backgrounds and provide patient centered care.

Explain the Population Health perspective and the disparities in health care faced by various patient populations.

Describe culturally competent approaches to patient care.

Explain the formulation and implementation of health care policies, and their effects on patient care.

Recognize the elements of the U.S. health care delivery system.

Describe the principles of ethical leadership, as well as formal leadership styles and models.

Explain the importance of governance and professional advocacy.

Recognize the value of quality management programs.

Apply effective teambuilding practices.

Recognize appropriate and trustworthy sources of information.

Describe the types of research and process of research development.

Explain various teaching strategies, and the role of the technologist as a facilitator of learning.

List key elements of adult education.

Apply workplace assessment and feedback techniques.

## **Communication and Soft Skills**

- I. Emotional Intelligence**
- II. Professional Communication**
  - A. Oral
  - B. Written
  - C. Virtual (e.g., social media, EMR)
- III. Interdisciplinary Teams**
- IV. Conflict Management**
- V. Presentation Skills**

# **Cultural Humility and Patient Centered Care**

- I. Interdisciplinary Health Care Teams**
- II. Different Patient Populations**
- III. Population Health and Disparities**
  - A. Epidemiology
  - B. Social factors influencing health
  - C. Sociocultural differences
- IV. Cultural Humility**

## **Health Care Delivery**

### **I. Evolution of the U.S. Health Care System (i.e., local, state, and national standards)**

- A. Health policy formulation and implementation
- B. Policy influences on direct patient care

### **II. U.S. Health Care Delivery System**

- A. Health care policy
- B. Government regulations
- C. Research, monitoring, and statistics
- D. Influencing factors
- E. The effect of imaging technology on health care delivery

# **Leadership**

- I. Ethical Leadership**
- II. Leadership Styles and Models (e.g., situational leadership, transactional leadership)**
- III. Governance**
  - A. Organizational structure
  - B. Jurisdictional structure (e.g., professional standards of practice)
- IV. Quality Management**
- V. Teambuilding**
  - A. Personnel and departmental needs assessment
  - B. Training and education
  - C. Outcomes
- VI. Professional Advocacy**
  - A. Technologist practice and education
  - B. Federal and state legislation and regulation
  - C. Interprofessional practice and advocacy (e.g., policy processes, strategy)
  - D. Professional organizations

# **Research Methods and Information Literacy**

## **I. Information Literacy**

- A. Assessing appropriateness, quality, and value of source material
- B. Comparing and contrasting scholarly vs. non-scholarly sources

## **II. Research**

- A. Types of research
- B. Preparing a scholarly project
- C. Dissemination of research

## **Clinical Coaching**

- I. Teaching Strategies**
- II. Training vs. Education**
- III. Technologist in the Role of Facilitator of Learning**
- IV. Adult Learners**
- V. Assessment and Feedback**



## Resources

This list of resources will assist educators in sampling the pool of references and study materials available to support the B.S.R.S Curriculum. The resources list should be viewed as a snapshot of available materials. Omission of any one title is not intentional. Because the creation of literature and media related to the field is dynamic, educators are encouraged to find additional sources for recent updates, revisions, and additions to this collection of titles.

Acello B. *Advanced Skills for Health Care Providers*. 2nd ed. Clifton Park, NY: Thomson Delmar Learning; 2007.  
ISBN 978-1418001339

Bailey DM, *Research for the Health Professional: A Practical Guide*. 3rd ed. Philadelphia, PA: FA Davis Co; 2015.  
ISBN 9780803639164

Bickley LS, Szilagyi PG. *Bates' Guide to Physical Examination and History Taking*. 13th ed. Philadelphia, PA: Wolters Kluwer; 2021.  
ISBN 978-1496398178

Budrys G. *Our Unsystematic Health Care System*. 4th ed. Lanham, MD: Rowman & Littlefield Publishers; 2015.  
ISBN 978-1442248465

Butts JB, Rich KL. *Nursing Ethics: Across the Curriculum and Into Practice*. 5th ed. Burlington, MA: Jones & Bartlett Learning; 2019.  
ISBN 978-1284170221

Christiansen S, Iverson C, Flanagan A, et al. *AMA Manual of Style: A Guide for Authors and Editors*. 11th ed. Oxford University Press; 2020.  
ISBN 978-0190246556

Cohen BJ, Hull K. *Memmler's The Human Body in Health and Disease*. 14th ed. Burlington, MA: Jones & Bartlett Learning; 2019.  
ISBN 978-1496380500

Daly J, Speedy S, Jackson D. *Leadership & Nursing: Contemporary Perspectives*. 2nd ed. Chatswood, NSW: Elsevier Australia; 2015.  
ISBN 978-0729541534

Damjanov I. *Pathology for the Health-Related Professions*. 5th ed. St Louis, MO: Elsevier; 2017.  
ISBN 978-0323357210

DePoy E, Gitlin LN. *Introduction to Research: Understanding and Applying Multiple Strategies*. 6th ed. St Louis, MO: Elsevier Mosby; 2020.

ISBN 978-0323612470

Ethical Leadership: Fostering an Ethical Environment & Culture. U.S. Department of Veterans Affairs. National Center for Ethics in Health Care Web site.  
<https://www.ethics.va.gov/ELprimer.pdf>

Fisher R, Ury WL, Patton B. *Getting to Yes: Negotiating without Giving In*. 3rd ed. New York, NY: Penguin Publishing Group; 2011.  
ISBN 978-0143118756

Galanti G. *Cultural and Religious Sensitivity: A Pocket Guide for Health Care Professionals*. 3rd ed. Oakbrook Terrace, IL: Joint Commission Resources; 2018.  
ISBN 978-1635850468

Galvan JL, Galvan M. *Writing Literature Reviews: A Guide for Students of the Social and Behavioral Sciences*. 7<sup>th</sup> ed. New York: Routledge; 2017.  
ISBN 978-041531574619

Hersey P, Blanchard KH, Johnson DE. *Management of Organizational Behavior: Leading Human Resources*. 10th ed. Upper Saddle River, NJ: Pearson Prentice Hall; 2013.  
ISBN 978-0132556408

Hissong AN, Lape JE, Bailey DM. *Bailey's Research for the Health Professional: A Practical Guide*. 3rd ed. Philadelphia, PA: FA Davis Co; 2015.  
ISBN 978-0803639164

Johnson S., Blanchard K. *Who Moved My Cheese?* New York, NY: Putnam; 1998.  
ISBN 978-0399144462

Knickman JR, Elbel B. *Jonas and Kovner's Health Care Delivery in the United States*. 12th ed. New York, NY: Springer Publishing Company; 2018.  
ISBN 978-0826172723

Kouzes JM, Posner BZ. *The Leadership Challenge*. 6th ed. San Francisco, CA: Josey-Bass; 2017.  
ISBN 978-1119278962

Leedy PD, Ormrod JE. *Practical Research Planning and Design*. 12th ed. Boston, MA: Pearson Publications; 2018.  
ISBN 978-0134775654

Makely S. *Professionalism in Health Care*. 5th ed. Upper Saddle River, NJ: Pearson Prentice Hall; 2016.  
ISBN 978-0134415673

McConnell CR. *The Effective Health Care Supervisor*. 9th ed. Sudbury, MA: Jones and Bartlett Publishers; 2018.  
ISBN 978-1284149449

McConnell CR. *Umiker's Management Skills for the New Health Care Supervisor*. 7th ed. Sudbury, MA: Jones and Bartlett Publishers; 2016.  
ISBN 978-1284121322

Morrison EE, Furlong B. *Health Care Ethics: Critical Issues for the 21<sup>st</sup> Century*. 4th ed. Sudbury, MA: Jones and Bartlett Publishers; 2018.  
ISBN 978-1284124910

National Standards for Culturally and Linguistically Appropriate Services (CLAS) in Health and Health Care. U.S. Department of Health & Human Service Web site.  
[www.ThinkCulturalHealth.hhs.gov/clas](http://www.ThinkCulturalHealth.hhs.gov/clas)

Nelson WA, Taylor E, Walsh T. Building an ethical organizational culture. *The Health Care Manager*. 2014; 33:158–164.

Papp J. *Quality Management in the Imaging Sciences*. 6th ed. St Louis, MO: Mosby Elsevier; 2018.  
ISBN 978-0323512374

Pearson J, Nelson P, Titsworth S, Hosek A. *Human Communication*. 7th ed. New York, NY: McGraw-Hill; 2020.  
ISBN 978-126000709

Perez MA, Luquis RR. *Cultural Competence in Health Education and Health Promotion*. 3rd ed. San Francisco, CA: Jossey-Boss; 2021.  
ISBN 978-1119578475

*Publication Manual of the American Psychological Association*. 7th ed. Washington, DC: American Psychological Association; 2019.  
ISBN 978-1433832161

Public Policy: Preferences and Outcomes 3<sup>rd</sup> Edition by Christopher A. Simon

Pyrczak F, Bruce RR. *Writing Empirical Research Reports: A Basic Guide for Students of the Social and Behavioral Sciences*. 8th ed. Los Angeles, CA: Pyrczak Publishing Routledge; 2014.  
ISBN 978-1936523368

Schoolhouse Rock “I’m just a bill” video

Shi L, Singh DA. *Essentials of the U.S. Health Care System*. 6th ed. Sudbury, MA: Jones and Bartlett Publishers; 2023.

ISBN 978-1284235104

Shortliffe EH, Cimino JJ. *Biomedical Informatics: Computer Applications in Healthcare and Biomedicine*. 4th ed. New York, NY: Springer; 2014.

ISBN 978-144714473

Stevens AT. *Quality Management for Radiographic Imaging*. New York, NY: McGraw-Hill; 2001.

ISBN 978-0838582497

Story L., *Pathophysiology: A Clinical Approach*. 4th ed. Burlington, MA: Jones & Bartlett Learning; 2020.

ISBN 978-1284205435

Squazzo, JD. Ethical challenges and responsibilities of leaders. *Healthcare Executive*. 2012; 27: 32–38.

Towsley-Cook DM, Young TA. *Ethical and Legal Issues for Imaging Professionals*. 2nd ed. St Louis, MO: Mosby; 2007

ISBN 978-0323045995

## Appendix

## **Curriculum Revision Workgroup**

We would like to extend special recognition to the outstanding professionals who volunteered their time as members of the curriculum revision project:

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We also wish to express our sincere appreciation for the many contributions and suggestions from the professional community over the course of this project.