

RADIOLOGIC TECHNOLOGY

RAD 100 Introduction to Radiologic Technology (3) Fall

3 hours lecture per week

Prerequisites(s): Acceptance into the Associate in Science degree in Radiologic Technology program.

Corequisite(s): RAD 100L and RAD 105 and RAD 140.

Comment: RAD 100 is offered in the fall semester only. Letter grade only. RAD 100 may not be taken credit/no credit. RAD 100 may not be audited.

RAD 100 provides an introduction to radiologic technology procedures: ethics, safety, dark room chemistry and technique, elementary radiographic positioning, radiographic exposure principles.

Upon successful completion of RAD 100, the student should be able to:

1. List the general responsibilities of the radiographer.
2. Describe the ALARA concept.
3. Describe standard positioning terms.
4. Identify the criteria for the projections commonly performed as routine projections for the chest, abdomen, upper and lower extremities, and the pelvis.
5. List the anatomy visualized in routine projections of the chest, abdomen, upper and lower extremities, and the pelvis.
6. Identify the four main image quality factors and the exposure factors affecting those quality factors.

RAD 100L Introduction to Radiologic Technology Laboratory (1) Fall

3 hours lab per week

Prerequisites(s): Acceptance into the Associate in Science degree in Radiologic Technology program.

Corequisite(s): RAD 100 and RAD 105 and RAD 140.

Comment: RAD 100L is offered in the Fall semester only. Letter grade only. RAD 100L may not be taken credit/no credit. RAD 100L may not be audited.

RAD 100L provides an introduction to radiologic technology procedures: processing, positioning, and equipment.

Upon successful completion of RAD 100L, the student should be able to:

1. Demonstrate specific responsibilities of the radiographer.
2. Demonstrate specific patient safety measures and concerns, and practice the ALARA (As Low As Reasonably Achievable) concept.
3. Demonstrate selected projections commonly performed as routine projections for the chest, abdomen, upper and lower extremities, and the pelvis.
4. Identify specific anatomic structures visualized on radiographs of routine projections of the chest, abdomen, upper and lower extremities, and the pelvis.
5. Write experiment reports in an appropriate format.

RAD 105 Radiologic Pharmacology (2) Fall

2 hours lecture per week

Prerequisites(s): Acceptance into the Associate in Science degree in Radiologic Technology program.

Comment: Letter grade only. RAD 105 may not be taken credit/no credit. RAD 105 may not be audited.

RAD 105 provides basic concepts of general pharmacology and the use, effects and side-effects of select drugs or medications presented in the course.

Upon successful completion of RAD 105, the student should be able to:

1. Distinguish between the chemical, generic, and trade names for selected drugs.
 7. Explain the action, uses, and side effects for selected drugs.
 8. Explain the effects of selected drugs on imaging procedures.
 9. Identify the routes of drug administration.
 10. Provide examples of the current legal and ethical status of the radiographer's role in drug administration.
 11. Explain a radiographer's professional liability concerning drug administration.

RAD 110 Radiologic Technique (3) Spring

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher in RAD 100 and a grade of "C" or higher in RAD 100L and a grade of "C" or higher in RAD 105 and a grade of "C" or higher in RAD 140.

Corequisite(s): RAD 110L and RAD 120 and RAD 141 and RAD 149.

Comment: RAD 110 is offered in the spring semester only. Letter grade only. RAD 110 may not be taken credit/no credit. RAD 110 may not be audited.

RAD 110 covers principles of x-ray technique and patient care during radiographic procedures.

Upon successful completion of RAD 110, the student should be able to:

1. Describe the projections commonly performed of the bony thorax, vertebral column, skull, and facial bones.
2. Identify the anatomy visualized in routine projections of the bony thorax, vertebral column, skull, and facial bones.
3. Identify signs of selected medical emergencies.
4. Identify common accessory equipment that may be used on patients in medical emergencies.
- 5.

RAD 110L Radiologic Technique Laboratory (1) Spring

3 hours lab per week

Prerequisite(s): A grade of "C" or higher in RAD 100 and a grade of "C" or higher in RAD 100L and a grade of "C" or higher in RAD 105 and a grade of "C" or higher in RAD 140.

Corequisite(s): RAD 110 and RAD 120 and RAD 141 and RAD 149.

Comment: RAD 110L is offered in the Spring semester only. Letter grade only. RAD 110L may not be taken credit/no credit. RAD 110L may not be audited.

RAD 110L covers the application of technique charts to radiography of specified body structures.

Upon successful completion of RAD 110L, the student should be able to:

1. Demonstrate the projections commonly performed of the bony thorax, vertebral column, skull, and facial bones.
2. Identify the anatomy visualized in routine projections of the bony thorax, vertebral column, skull, and facial bones.
3. Explain the significance of HVL, filtration, and grid use with regard to image density, image contrast, and patient dose.

RAD 120 Radiologic Physics (3) Spring

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher in RAD 100 and a grade of "C" or higher in RAD 100L and a grade of "C" or higher in RAD 140.

Corequisite(s): RAD 110 and RAD 110L and RAD 141 and RAD 149.

Comment: RAD 120 is offered in the spring semester only. Letter grade only. RAD 120 may not be taken credit/no credit. RAD 120 may not be audited.

RAD 120 provides a foundation in basic principles of ionizing radiation applied to equipment used in radiologic technology.

Upon successful completion of RAD 120, the student should be able to:

1. Identify the fundamental components of an x-ray machine.
2. Identify the theories of x-ray production and x-ray interactions with matter.
3. Identify the principles governing electricity and magnetism.
4. Identify the principles governing radiation protection.

NOTICE: RAD 140, 141, 142, 240, 241 and 242 are special courses in Hospital Radiographic Technique.

Courses in Hospital Radiographic Technique provide approximately 2200 hours of clinical experience in the radiology department of a cooperating hospital. These experiences include observation of and practice in positioning the sick and injured patient, obtaining the exact radiograph requested by the physician, and assisting in treatment of disease. In these special courses in Hospital Radiographic Technique film exposure time, film manipulation and the finished radiograph are critically studied. Throughout the two academic years and interim summer, certain approved radiographs must be completed. These, by location, include radiographs of extremities, gastrointestinal tract, urinary tract, skull (sinuses, facial bones, mastoids, mandible), spine, pelvis (hip-nailing), shoulder and thoracic cage and cavity (lungs, heart and sternum).

RAD 140 Hospital Radiographic Technique I (6) Fall

At least 300 clinical hours

Prerequisite(s): Acceptance into the Associate in Science degree in Radiologic Technology program.

Corequisite(s): RAD 100 and RAD 100L and RAD 105.

Comment: 280 clinical hours during 16 week semester, 80 clinical hours during 4 week semester break. RAD 140 is offered in the fall semester only. Letter grade only. RAD 140 may not be audited. RAD 140 may not be taken credit/no credit.

RAD 140 provides for observation and supervised practice in positioning the patient and obtaining approved radiographs as requested with emphasis on chest, abdomen, and upper extremities.

Upon successful completion of RAD 140, the student should be able to:

1. Perform safe, correct radiographic technique and positioning, with emphasis on the chest, abdomen, upper extremities.
2. Correctly adapt technical factors to meet the clinical situation.
3. Correlate anatomy and physiology and radiographic procedures and techniques.
4. Carry out assigned radiographic procedures in the clinical area with 100 percent accuracy as determined by satisfactory clinical evaluation comments.
5. Correlate anatomy and physiology and assigned radiographic procedures with 100 percent accuracy as determined by satisfactory clinical evaluation comments.
6. Demonstrate professionalism in attendance, attitude, and behavior.
7. Perform required clinical competencies.

RAD 141 Hospital Radiographic Technique II (5) Spring

At least 250 clinical hours

Prerequisite(s): A grade of "C" or higher in RAD 100 and a grade of "C" or higher in RAD 100L and a grade of "C" or higher in RAD 105 and a grade of "C" or higher in RAD 140.

Corequisite(s): RAD 110 and RAD 110L and RAD 120 and RAD 149.

Comment: RAD 141 is offered in the spring semester only. Letter grade only. RAD 141 may not be taken credit/no credit. RAD 141 may not be audited.

RAD 141 provides for observation and supervised practice in positioning the patient and obtaining approved radiographs as requested with emphasis on specified structures.

Upon successful completion of RAD 141, the student should be able to:

1. Perform safe, correct radiographic technique and positioning, with emphasis on the skull, facial bones, spine and bony thorax.
2. Correctly adapt technical factors to meet the clinical situation.
3. Correlate anatomy and physiology and radiographic procedures and techniques.
4. Carry out assigned radiographic procedures in the clinical area with 100 percent accuracy as determined by satisfactory clinical evaluation comments.
5. Correlate anatomy and physiology and assigned radiographic procedures with 100 percent accuracy as determined by satisfactory clinical evaluation comments.
6. Perform required clinical competencies.

RAD 142 Hospital Radiographic Technique III (7) Summer

At least 350 clinical hours

Prerequisite(s): A grade of "C" or higher in RAD 110 and a grade of "C" or higher in RAD 110L and a grade of "C" or higher in RAD 120 and a grade of "C" or higher in RAD 141 and a grade of "C" or higher in RAD 149.

Corequisite(s): RAD 150.

Comment: RAD 142 is offered in the summer only. Letter grade only. RAD 142 may not be taken credit/no credit. RAD 142 may not be audited.

RAD 142 provides for observation and supervised practice in positioning the patient and obtaining approved radiographs as requested with emphasis on specified structures.

Upon successful completion of RAD 142, the student should be able to:

1. Perform safe, correct radiographic technique and positioning, with emphasis on the cranium and bedside radiography of the chest, abdomen and skeletal system.
2. Adapt technical factors to meet the clinical situation.
3. Correlate anatomy and physiology and radiographic procedures and techniques.
4. Apply pediatric radiography in clinical setting.
5. Carry out assigned radiographic procedures in the clinical area with 100 percent accuracy as determined by satisfactory clinical evaluation comments.
6. Correlate anatomy and physiology with assigned radiographic procedures with 100 percent accuracy as determined by satisfactory clinical evaluation comments.
7. Perform required clinical competencies.

RAD 149 Radiographic Film Critique I (1) Spring

1 hour lecture per week

Prerequisite(s): A grade of "C" or higher in RAD 100 and a grade of "C" or higher in RAD 100L and a grade of "C" or higher in RAD 105 and a grade of "C" or higher in RAD 140.

Corequisite(s): RAD 110 and RAD 110L and RAD 120 and RAD 141.

Comment: RAD 149 is offered in the spring semester only. Letter grade only. RAD 149 may not be taken credit/no credit. RAD 149 may not be audited.

RAD 149 focuses on evaluation of radiographic technique through critique of films obtained in RAD 141; presentation of case reports.

Upon successful completion of RAD 149, the student should be able to:

1. Identify the criteria for radiographic image evaluation.
2. Assess selected images using radiographic principles and terminology.
3. Demonstrate good judgment in determining whether selected images are optimally diagnostic.
4. Engage in peer teaching.

RAD 150 Radiographic Film Critique II (1) Summer

2.5 hours lecture per week for 6 weeks

Prerequisite(s): A grade of "C" or higher in RAD 110 and a grade of "C" or higher in RAD 110L and a grade of "C" or higher in RAD 120 and a grade of "C" or higher in RAD 141.

Corequisite(s): RAD 142.

Comment: RAD 150 is offered in the summer only. Letter grade only. RAD 150 may not be taken credit/no credit. RAD 150 may not be audited.

RAD 150 focuses on evaluation of radiographic technique through critique of images obtained in RAD 142; presentation of case reports.

Upon successful completion of RAD 150, the student should be able to:

1. Identify the criteria for radiographic image evaluation of select radiographic examinations.
2. Effectively critique radiographic images using radiographic principles and terminology.
3. Demonstrate good judgment in determining diagnostic quality of select radiographic examinations.
4. Engage in peer teaching.

RAD 200 Advanced Radiologic Positioning (3) Fall

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher in RAD 142 and a grade of "C" or higher in RAD 150.

Corequisite(s): RAD 200L and RAD 210 and RAD 240 and RAD 248.

Comment: RAD 200 is offered in the fall semester only. Letter grade only. RAD 200 may not be audited. RAD 200 may not be taken credit/no credit.

RAD 200 focuses on advanced radiographic positioning of the osseous system.

Upon successful completion of RAD 200, the student should be able to:

1. Identify projections that could be used to supplement routine radiographic examinations to demonstrate specific anatomy.
2. Identify adaptations or non-routine projections that may be performed to demonstrate anatomy in a trauma situation.
3. Identify adaptations or non-routine projections that may be performed to demonstrate anatomy for the geriatric patient.
4. Identify adaptations or non-routine projections that may be performed to demonstrate anatomy for the pediatric patient.

5. Identify situations in which routine radiographic projections would be contraindicated.
6. Identify radiation safety and patient care concerns for mobile radiography.

RAD 200L Advanced Radiologic Positioning Laboratory (1) Fall

3 hours lab per week

Prerequisite(s): A grade of "C" or higher in RAD 142 and a grade of "C" or higher in RAD 150.

Corequisite(s): RAD 200 and RAD 210 and RAD 240 and RAD 248.

Comment: RAD 200L is offered in the fall semester only. Letter grade only. RAD 200L may not be audited. RAD 200L may not be taken credit/no credit.

RAD 200L develops skills in the construction and application of technique charts for the osseous system, and the application and use of contrast media in radiologic technology procedures.

Upon successful completion of RAD 200L, the student should be able to:

1. Demonstrate selected advanced positioning or projections.
2. Create a usable technique chart utilizing laboratory procedures.
3. Use appropriate communication and terminology w/simulated patient and staff.
4. Identify specific anatomic structures visualized on radiographs of special projections of the chest, abdomen, upper and lower extremities, head, vertebrae, and pelvis.
5. Critique radiographs of special projections of the chest, abdomen, upper and lower extremities, head, vertebrae, and pelvis for image quality.

RAD 210 Advanced Radiologic Technique (3) Fall

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher in RAD 142 and a grade of "C" or higher in RAD 150.

Corequisite(s): RAD 200 and RAD 200L and RAD 240 and RAD 248.

Comment: RAD 210 is offered in the fall semester only. Letter grade only. RAD 210 may not be taken credit/no credit. RAD 210 may not be audited.

RAD 210 focuses on advanced principles of radiographic exposure, contrast media procedures, pediatric radiography, diseases/injuries and relationship to radiology; introduction to computer applications in radiography.

Upon successful completion of RAD 210, the student should be able to:

1. Describe specific considerations for imaging various special patient populations.
2. Evaluate selected radiographic/fluoroscopic images for positioning, centering, appropriate anatomy, and overall image quality for selected projections of the GI, biliary, and GU systems.
3. Explain the routine screening mammography procedure and evaluate selected mammographic images for positioning, anatomy, and overall image quality.
4. Identify major anatomical structures found within selected cross-sectional images of the head and neck, chest, and abdomen.
5. Identify various terms related to computer fundamentals and the major components of the CT imaging system.

RAD 230 Special Radiographic Procedures (3) Spring

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher in RAD 200 and a grade of "C" or higher in RAD 200L and a grade of "C" or higher in RAD 210 and a grade of "C" or higher in RAD 240 and a grade of "C" or higher in RAD 248.

Corequisite(s): RAD 230L and RAD 241 and RAD 249 and RAD 255.

Comment: RAD 230 is offered in the spring semester only. Letter grade only. RAD 230 may not be audited. RAD 230 may not be taken credit/no credit.

RAD 230 is a survey of special procedures in radiography and equipment involved.

Upon successful completion of RAD 230, the student should be able to:

1. Describe at least one procedure of an advanced imaging modality in terms of:
 - patient preparation
 - general procedural methods
 - contrast media commonly used
 - contrast media administration
 - special equipment utilized

- projections required
- 2. List at least three major uses for one advanced imaging modality.
- 3. Identify the advanced imaging modality used to create selected images.
- 4. Identify cross-sectional anatomy on selected images produced by advanced imaging modalities.

RAD 230L Special Radiographic Procedures Laboratory (1) Spring

3 hours lab per week

Prerequisite(s): A grade of "C" or higher in RAD 200 and a grade of "C" or higher in RAD 200L and a grade of "C" or higher in RAD 210 and a grade of "C" or higher in RAD 240 and a grade of "C" or higher in RAD 248.

Corequisite(s): RAD 230 and RAD 241 and RAD 249 and RAD 255.

Comment: RAD 230L is offered in the spring semester only. Letter grade only. RAD 230L may not be audited. RAD 230L may not be taken credit/no credit.

RAD 230L provides laboratory practice in special procedures in radiography and use of equipment involved.

Upon successful completion of RAD 230L, the student should be able to:

1. Correctly apply specified quality control measures and tests to radiographic and imaging equipment.
2. Identify and describe the special needles, guide wires and catheters required for each special procedure discussed in RAD 230.
3. Observe and describe the procedural steps involved in the Seldinger technique and lumbar puncture.
4. Identify major vascular anatomy from the cranium to the foot.
5. Describe each special radiographic procedure discussed in RAD 230 in terms of patient preparation, contrast medium employed, general procedural methods, method of administering contrast media, special equipment utilized, projections required, and anatomy visualized.

RAD 240 Hospital Radiographic Technique IV (7) Fall

At least 350 clinical hours

Prerequisite(s): A grade of "C" or higher in RAD 142 and a grade of "C" or higher in RAD 150.

Corequisite(s): RAD 200 and RAD 200L and RAD 210 and RAD 248.

Comment: RAD 240 is offered in the fall semester only. Letter grade only. RAD 240 may not be audited. RAD 240 may not be taken credit/no credit.

RAD 240 provides for observation and supervised practice in pediatric radiography and radiography using contrast media.

Upon successful completion of RAD 240, the student should be able to:

1. Apply safe, correct radiographic technique and positioning, with emphasis on radiographic examinations using contrast media of the gastrointestinal and urinary system.
2. Correctly adapt technical factors to meet the clinical situation.
3. Correlate anatomy and physiology and radiographic procedures and techniques.
4. Apply basic principles of pediatric radiography.
5. Carry out assigned radiographic procedures in the clinical area with 100 percent accuracy as determined by satisfactory clinical evaluation comments.
6. Correlate anatomy and physiology and assigned radiographic procedures with 100 percent accuracy as determined by satisfactory clinical evaluation comments.
7. Demonstrate professionalism in attendance, attitude, and behavior.
8. Meet clinical objectives.

RAD 241 Hospital Radiographic Technique V (6) Spring

At least 300 clinical hours

Prerequisite(s): A grade of "C" or higher in RAD 200 and a grade of "C" or higher in RAD 200L and a grade of "C" or higher in RAD 210 and a grade of "C" or higher in RAD 240 and a grade of "C" or higher in RAD 248.

Corequisite(s): RAD 230 and RAD 230L and RAD 249 and RAD 255.

Comment: RAD 241 is offered in the spring semester only. Letter grade only. RAD 241 may not be audited. RAD 241 may not be taken credit/no credit.

RAD 241 provides for observation and supervised practice in special procedures in radiography.

Upon successful completion of RAD 241, the student should be able to:

1. Apply safe and correct radiographic technique and positioning, with emphasis on special radiographic examinations using and imaging techniques studied in RAD 230 and 230L.
2. Correctly adapt technical factors to meet the clinical situation.
3. Correlate of anatomy and physiology and radiographic procedures and techniques.
4. Apply principles of pediatric radiography.

5. Carry out assigned radiographic procedures in the clinical area with 100 percent accuracy as determined by satisfactory clinical evaluation comments.
6. Correlate anatomy and physiology and assigned radiographic procedures with 100 percent accuracy as determined by satisfactory clinical evaluation comments.
7. Meet clinical objectives.

RAD 242 Hospital Radiographic Technique VI (5) (Summer)

At least 250 clinical hours

Prerequisite(s): A grade of "C" or higher in RAD 230 and a grade of "C" or higher in RAD 230L and a grade of "C" or higher in RAD 241 and a grade of "C" or higher in RAD 249 and a grade of "C" or higher in RAD 255.

Corequisite(s): RAD 260.

Comment: RAD 242 is offered in the summer only. Letter grade only. RAD 242 may not be audited. RAD 242 may not be taken credit/no credit.

RAD 242 provides for hospital clinical experiences with emphasis on experiences in operating room examinations with an advanced level of safe, correct radiographic technique and positioning, adaptation of technical factors to meet the clinical situation, and correlation of anatomy and physiology to radiographic procedures and techniques. It includes rotation in either nuclear medicine or radiation therapy.

Upon successful completion of RAD 242, the student should be able to:

1. Apply safe, correct radiographic technique and positioning, with emphasis on operating room examinations.
2. Correctly adapt technical factors to meet the clinical situation.
3. Correlate anatomy and physiology and radiographic procedures and techniques.
4. Apply introductory knowledge of clinical practice in either nuclear medicine or radiation therapy.
5. Carry out assigned radiographic procedures in the clinical area with 100 percent accuracy as determined by satisfactory clinical evaluation comments.
6. Correlate anatomy and physiology and assigned radiographic procedures with 100 percent accuracy as determined by satisfactory clinical evaluation comments.
7. Meet clinical objectives.

RAD 248 Radiographic Film Critique III (1) Fall

1 hour lecture per week

Prerequisite(s): A grade of "C" or higher in RAD 142 and a grade of "C" or higher in RAD 150.

Corequisite(s): RAD 200 and RAD 200L and RAD 210 and RAD 240.

Comment: RAD 248 is offered in the fall semester only. Letter grade only. RAD 248 may not be taken credit/no credit. RAD 248 may not be audited.

RAD 248 is a problem-based seminar and focuses on advanced film critique stressing common procedures using contrast material as well as pediatric radiography.

Upon successful completion of RAD 248, the student should be able to:

1. Recognize the difference between diagnostic and poor quality radiographs for selected examinations.
2. Use film evaluation procedures to explain radiographic diagnostic quality.
3. Discuss radiographs based on pertinent anatomy, physiology and pathology.
4. Discuss related pathology.

RAD 249 Radiographic Film Critique IV (1) Spring

1 hour lecture per week

Prerequisite(s): A grade of "C" or higher in RAD 200 and a grade of "C" or higher in RAD 200L and a grade of "C" or higher in RAD 210 and a grade of "C" or higher in RAD 240 and a grade of "C" or higher in RAD 248.

Corequisite(s): RAD 230 and RAD 230L and RAD 241 and RAD 255.

Comment: RAD 249 is offered in the spring semester only. Letter grade only. RAD 249 may not be taken credit/no credit. RAD 249 may not be audited.

RAD 249 is a problem-based seminar, focusing on advanced film critique stressing films made during special procedures.

Upon successful completion of RAD 249, the student should be able to:

1. Identify the major components of the primary equipment for at least one advanced imaging modality.
2. Explain the major imaging principles of sonography, computed tomography, magnetic resonance imaging, digital subtraction angiography, or nuclear medicine.
3. List at least three critique criteria for select images created with a specialized imaging modality for a given anatomical part.

RAD 255 Applied Radiologic Principles (1) Spring

1 hour lecture per week

Prerequisite(s): A grade of "C" or higher in RAD 200 and a grade of "C" or higher in RAD 200L and a grade of "C" or higher in RAD 210 and a grade of "C" or higher in RAD 240 and a grade of "C" or higher in RAD 248.

Corequisite(s): RAD 230 and RAD 230L and RAD 241 and RAD 249.

Comment: RAD 255 is offered in the spring semester only. Letter grade only. RAD 255 may not be audited. RAD 255 may not be taken credit/no credit.

RAD 255 focuses on synthesis and correlation of imaging techniques as related to basic principles of radiography and implications of emerging technology.

Upon successful completion of RAD 255, the student should be able to:

1. Choose an appropriate radiographic examination to be performed given a scenario using knowledge of radiographic procedures.
2. Correctly apply radiographic exposure technique changes to accommodate a given situation.
3. Identify areas of concern that need to be addressed for a given scenario.
4. Correctly apply knowledge of equipment in the areas of quality management and operation.

RAD 260 Radiation Biology and Protection (2) Summer

5 hours lecture per week for 6 weeks

Prerequisite(s): A grade of "C" or higher in RAD 230 and a grade of "C" or higher in RAD 230L and a grade of "C" or higher in RAD 241 and a grade of "C" or higher in RAD 249 and a grade of "C" or higher in RAD 255.

Corequisite(s): RAD 242.

Comment: RAD 260 is offered in the summer only. Letter grade only. RAD 260 may not be audited. RAD 260 may not be taken credit/no credit.

RAD 260 focuses on effects of ionizing radiation in biologic systems; application to radiography, radiation therapy, and nuclear medicine; importance of minimizing exposure and proper techniques.

Upon successful completion of RAD 260, the student should be able to:

1. Identify the theories and principles relating to effects of ionizing radiation on biologic systems.
2. Apply theory and radiographic principles to radiography, radiation therapy and nuclear medicine imaging.
3. Describe the importance of minimizing radiation exposure and using proper technique settings.

RELIGION

REL 150 Introduction to the World's Major Religions (3) KCC AA/FGC and AS/AH

3 hours lecture per week

REL 150 is a historical survey of the world's major religious traditions. The course provides a basic introduction to the world's religious traditions while enabling students to think both sensitively and critically about the religious world.

Upon successful completion of REL 150, the student should be able to:

1. Identify the myths, rituals, ethics, and art of each major religious tradition.
2. Describe significant historical developments within each major religious tradition, from the time of its origins until today.
3. Demonstrate an understanding of their own religious background and those of the surrounding communities.

REL 151 Religion and the Meaning of Existence (3) KCC AA/DH

3 hours lecture per week

REL 151 explores various religious responses to the question, "what is the meaning of existence?," while also considering significant challenges to those responses.

Upon successful completion of REL 151, the student should be able to:

1. Describe various traditional religious responses to the question, "what is the meaning of existence?"
2. Identify key historical and contemporary challenges to religious explanations of the meaning of existence.
3. Examine one's own views on the meaning of existence in light of and in comparison to the values of the world's religions.

REL 202 Understanding Indian Religions (3) KCC AA/DH

3 hours lecture per week

Recommended Preparation: REL 150.

REL 202 is a historical survey of the major religious traditions of India. The course explores the evolution of Indian religious beliefs and practices with an emphasis on understanding the historical roots of contemporary religious diversity in India.

Upon successful completion of REL 202, the student should be able to:

1. Describe the basic characteristics of the religious traditions of India, including their myths, rituals, ethics and art.
2. Identify the major historical events, periods, texts and personalities in the development of Indian religions.
3. Analyze phenomena from Indian religions in light of South Asia's historical, regional, ethnic and sectarian diversity.

REL 205 Understanding Hawaiian Religion (3) KCC AA/DH and KCC AS/AH

3 hours lecture per week

Recommended Preparation: REL 150.

REL 205 is a historical survey of Hawaiian religion. The course explores the evolution and diversity of Hawaiian beliefs and practices from ancient times to the present.

Upon successful completion of REL 205, the student should be able to:

1. Describe the core elements of Hawaiian religion, including its myths, rituals, ethics and arts.
2. Identify the major figures, events, and sources in the historical development of Hawaiian religion.
3. Analyze Hawaiian religious phenomena in light of Hawaii's historical, regional, and later ethnic diversity.

REL 209 Understanding Islam (3) KCC AA/DH

3 hours lecture per week

Recommended Preparation: REL 150.

REL 209 is a historical survey of Islam. The course explores the evolution of Muslim beliefs and practices around the world with an emphasis on understanding the historical roots of contemporary diversity within Islam.

Upon successful completion of REL 209, the student should be able to:

1. Describe the basic universal elements of Islam, including its myths, rituals, ethics and art.
2. Identify the major historical events, periods, texts and personalities in the development of Islam.
3. Analyze phenomena from the Muslim world in light of Islam's historical, regional, ethnic and sectarian diversity.

REL 210 Understanding Christianity (3) KCC AA/DH

3 hours lecture per week

Recommended preparation: REL 150.

Comment: REL 210 may not be audited.

REL 210 is a historical survey of Christianity. The course explores the evolution of Christian beliefs and practices around the world with an emphasis on understanding the historical roots of contemporary diversity within Christianity.

Upon successful completion of REL 210, the student should be able to:

1. Describe the basic universal elements of Christianity, including its myths, rituals, ethics and art.
2. Identify the major historical events, periods, texts and personalities in the development of Christianity.
3. Analyze phenomena from the Christian world in light of Christianity's historical, regional, ethnic and sectarian diversity.

REL 215 Contemporary Religions (3) KCC AA/DH

3 hours lecture per week

Recommended preparation: REL 150.

REL 215 explores the development of new religions and contemporary transformations of traditional religions.

Upon successful completion of REL 215, the student should be able to:

1. Identify social pressures and influences that have transformed the contemporary religious landscape.
2. Describe the distinguishing characteristics of traditional religions and new religious movements and provide contemporary examples of each.
3. Analyze contemporary religious phenomena in light of modern technology, science, globalization, human population shifts and/or environmental concerns.

REL 222 Religion and Conflict in the Modern Era (3) KCC AA/DH

3 hours lecture per week

Recommended preparation: REL 150 and HIST 151 and/or HIST 152.

Comment: REL 222 is cross-listed as HIST 222.

REL 222 analyzes the historical relationship between religion and conflict in the modern era. The course explores the ways in which religions have served to create, exacerbate, and/or legitimate violent conflicts since 1800.

Upon successful completion of REL 222, the student should be able to:

1. Identify common characteristics of religious conflicts throughout history and around the world.
2. Describe the historical origins and evolutions of various religious conflicts in the modern era.
3. Analyze the ways in which religious rhetoric, myths, rituals and ethics have helped shape violent conflicts in the modern era.

RESPIRATORY CARE

RESP 100 Respiratory Care Profession (1) Summer

1 hour lecture per week

Comment: RESP 100 may not be taken credit/no credit. RESP 100 may be audited only upon approval of both Respiratory Therapy Program Director and instructor. RESP 100 is only offered in the Summer semester.

RESP 100 introduces students to Respiratory Care as an allied health field and defines the role of the Respiratory Care Practitioner in patient care and as a member of the health care team; provides basic knowledge of health care systems and settings, national and state organizational structure, credentialing and licensing, and ethical considerations; and introduces fundamental patient care concepts, procedures, aids, and terminology.

Upon successful completion of RESP 100, the student should be able to:

1. Describe the history and development of Respiratory Care as a profession.
2. Identify current local and national issues affecting the Respiratory Care profession.
3. Describe the role of the Respiratory Care Practitioners (RCP) as a member of the health care team.
4. Discuss ethical concerns facing respiratory Care and other health care practitioners.
5. Discuss issues of health literacy and patient safety affecting Respiratory Care practice.
6. Describe the role of a Respiratory Care or Cardiopulmonary Department within the organizational structure of a hospital or health care facility.
7. Describe the role of Respiratory Care in the out-patient setting.
8. Demonstrate an understanding of community-based health care by examining a community-based health agency.
9. Explain the difference between licensure and credentialing in Respiratory Care.
10. Identify geriatric core competencies, describe role of Respiratory Therapist in interdisciplinary team geriatric care.
11. Identify appropriate responses in non-violent crisis intervention.

RESP 101 Sciences for Respiratory Care (3) (Summer)

3 hours lecture per week

Prerequisite(s): Acceptance into the Associate in Science degree in Respiratory Care program.

Recommended Preparation: ENG 100 or MATH 100 or CHEM 100 or PHYS 100.

Comment: RESP 101 is offered in the summer semester only. RESP 101 may not be taken credit/no credit. RESP 101 may be audited only upon approval of both Respiratory Therapy Program Director and instructor. RESP 101 offers letter grade A, B, C, and F only. 0-74% = F. There is no D grade possible for this course.

RESP 101 focuses on basic sciences for the beginning student in respiratory care. This course will include principles of physics, infection control, computer skills, and evidence-based medicine that apply to healthcare.

Upon successful completion of RESP 101, the student should be able to:

1. Describe gas laws and perform calculations using gas laws.
2. Define scientific terms related to physics and chemistry.
3. Describe infection control techniques used in healthcare.
4. Develop an electronic presentation (i.e. PowerPoint).
5. Develop a simple spreadsheet.
6. Perform internet searches.
7. Define evidence-based medicine.
8. Utilize principles of evidence-based medicine to research selected topics in respiratory care.

RESP 200 Cardiopulmonary Pathophysiology (3) Fall

3 hours lecture per week

Prerequisite(s): Acceptance into the Associate in Science degree in Respiratory Care program.

Comment: RESP 200 may not be taken credit / no credit. RESP 200 may be audited only upon approval of Respiratory Program Director and Instructor. RESP 200 is offered only in the Fall semester.

RESP 200 examines common cardiopulmonary disease processes while exploring the relationship between pathophysiology and therapeutic interventions.

Upon successful completion of RESP 200, the student should be able to:

1. Define and describe fundamental characteristics of cardiopulmonary diseases and conditions.
2. Discuss etiology, pathology, diagnosis, management, and prognosis of common cardiopulmonary diseases.
3. Match chronic cardiopulmonary diseases to appropriate rehabilitative techniques.
4. Define abnormal lab values as they relate to specific diseases.
5. Discuss traumatic injuries to the chest wall.
6. Describe common pathology seen on chest x-ray exam.

RESP 201 Cardiopulmonary Anatomy and Physiology (3) (Fall)

3 hours lecture per week

Prerequisite(s): Acceptance into the Associate in Science degree in Respiratory Care program.

Comment(s): RESP 201 may not be taken credit/no credit. RESP 201 may be audited only upon approval of both Respiratory Therapy Program Director and Instructor. RESP 201 offers letter grade A, B, C, and F only (0-74% = F). There is no D grade possible for the course. RESP 201 is only offered in the summer semester.

RESP 201 provides an in-depth study of the anatomy and physiology of the heart, lungs, and associated structures including an introduction to cardiac electrophysiology and lung volumes and capacities.

Upon successful completion of RESP 201, the student should be able to:

1. Describe the structure and function of the heart, lungs, and related body systems.
2. Discuss the process of respiration.
3. Demonstrate knowledge of electrophysiology through rhythm recognition.
4. State the function of blood, vessels, and the heart.
5. Name the structures in the heart and lung and describe their location in the body.
6. Describe the gross and microscopic anatomy of the lung.
7. Describe lung volumes and capacities.
8. Interpret normal pulmonary function test values.
9. Perform physiologic calculations.

RESP 202 Clinical Practice I (5) Fall

16 hours lab or clinical per week

Prerequisite(s): Acceptance into the Associate in Science degree in Respiratory Care program.

Comment: RESP 202 may not be taken credit/no credit. RESP 202 may be audited only upon approval of the Respiratory Care Program Director and Instructor. RESP 202 is offered only in the Fall semester. Uniform, school patch, scissors, and stethoscope are required. A professional fee of up to \$500.00 is charged.

RESP 202 introduces students to basic respiratory care skills and procedures including charting, medications, oxygen and aerosol therapy, lung inflation therapy, and secretion management.

Upon successful completion of RESP 202, the student should be able to:

1. Perform routine physical assessment on the cardiopulmonary patient.
2. Document results of the patient's assessment and response to therapy in the patient's record.
3. Monitor and evaluate the patient's response to respiratory therapy.

4. Communicate the patient's respiratory care plan, response to therapy, and progress to other members of the health care team.
5. Collect the necessary supplies, test for equipment function, and administer oxygen, humidification, and aerosol devices.
6. Measure respiratory care medications as ordered and administer using the appropriate devices.
7. Perform secretion management techniques such as chest percussion and postural drainage and positive pressure adjuncts.
8. Perform hyperinflation techniques such as intermittent positive pressure breathing and incentive spirometry.
9. Instruct patient on proper breathing and coughing techniques.
10. Discuss the role of the respiratory care practitioner as part of the health care team.
11. Apply universal precaution in the patient care setting.

RESP 203 Respiratory Care Techniques I (3) Fall

3 hours lecture per week

Prerequisite(s): Acceptance into the Associate in Science degree in Respiratory Care program.

Comment: RESP 203 may not be taken credit / no credit. RESP 203 may be audited only upon approval of Respiratory Program Director and Instructor. RESP 203 is offered in the Fall semester only.

RESP 203 introduces students to respiratory care knowledge and techniques including charting, medications, oxygen therapy, lung inflation therapy, and secretion management.

Upon successful completion of RESP 203, the student should be able to:

1. Review a patient's record for respiratory care orders and pertinent data.
2. Collect and evaluate additional pertinent clinical data to evaluate the patient's clinical status.
3. Select, assemble, and check equipment for proper function that are used in oxygen administration, humidification, and aerosol delivery.
4. Define or describe the following prescribed therapies: medical gas therapy, humidity and aerosol therapy, PAP therapy (positive airway pressure therapy), chest percussion and postural drainage therapy, lung inflation therapy.
5. State the goals of each of the prescribed therapies.
6. State the indications/contraindications of each of the prescribed therapies.
7. State the hazards/complications of each of the prescribed therapies.
8. Explain the proper method of providing the prescribed therapies.
9. State the method(s) of evaluation and monitoring of the patient's response to each of the prescribed therapies.
10. Evaluate and modify prescribed therapy for non-critically ill patients.
11. Explain the process of cardiopulmonary resuscitation. Maintain records and communication using conventional terminology as required by hospital policy and regulatory agencies.
12. Demonstrate a concept or principle related to RESP 203 in a project.
13. Present the project to a non-medical audience.

RESP 211 Introduction to Mechanical Ventilation (2)

4 hours lecture/lab per week

Prerequisite(s): Acceptance into the Associate in Science degree in Respiratory Care program.

Comment: RESP 211 may not be taken credit / no credit. RESP 211 may be audited only upon approval of Respiratory Program Director and Instructor.

RESP 211 introduces students to the concepts and principles of mechanical ventilation.

Upon successful completion of RESP 211, the student should be able to:

1. List the physiological indications for mechanical ventilation.
2. List the criteria for instituting mechanical ventilation.
3. List the hazards/complications of mechanical ventilation.
4. Describe the physiological effects of positive pressure.
5. Explain the concepts of compliance and resistance.
6. Perform math calculations used in mechanical ventilation.
7. Discuss the appropriate settings when initiating mechanical ventilation.
8. Describe the different modes of conventional mechanical ventilation: Control, Assist-Control (A/C), Synchronized Intermittent Mechanical Ventilation (SIMV), Pressure Support Ventilation (PSV), Pressure Control Ventilation (PCV), Pressure Control Inverse Ratio Ventilation (PCIRV).
9. Explain the different methods of triggering and cycling the ventilator.
10. Explain the different phases of inspiration and exhalation of Continuous Mechanical Ventilation (CMV).
11. Diagram the different graphic waveforms of ventilation.
12. Explain how graphic waveforms are used in mechanical ventilation.
13. Explain the differences between Intermittent Positive Pressure Breathing (IPPB), Pressure Support (PS), and Pressure Control (PC).

14. Explain the effect of flow wave patterns on the inspiratory flowrate of flow variable ventilators.
15. Explain the maintenance of patient-ventilator interface.
16. Describe various methods of weaning and extubation procedures.
17. Discuss the role of the Respiratory Care Practitioner in the ICU environment.
18. Explain the concept of open-lung inflation Rx.
19. Explain the effects of Continuous Positive Airway Pressure (CPAP) and Positive End Expiratory Pressure (PEEP) therapy on improving oxygenation.
20. Describe the procedure for using and titrating Continuous Positive Airway Pressure (CPAP) and Positive End Expiratory Pressure (PEEP).
21. Describe the procedure of using Bilevel Positive Airway Pressure (BiPAP).
22. Explain the concepts of Inspiratory Positive Airway Pressure (IPAP) and Expiratory Positive Airway Pressure (EPAP).
23. Apply concepts of mechanical ventilation into a clinical simulation.

RESP 212 Clinical Practice II (5) Spring

16 hours lab or clinical per week

Prerequisite(s): Acceptance into the Associate in Science degree in Respiratory Care program.

Comment: Letter grade only. RESP 212 may not be taken credit/no credit. RESP 212 may be audited only upon approval of the Respiratory Care Program Director and Instructor. RESP 212 will only be offered in Spring semesters. Uniform, school patch, scissors, and stethoscope are required. A professional fee of up to \$500.00 is charged.

RESP 212 introduces students to advanced respiratory care skills and procedures including airway management, mechanical ventilation, arterial puncture, and patient transport.

Upon completion of RESP 212, the student should be able to:

1. Perform routine physical assessment on the critically ill patient in the intensive care unit.
2. Interpret and evaluate diagnostic tests such as Arterial Blood Gases, electrolytes, and chest x-rays.
3. Document results of the patient's assessment and diagnostic tests in the patient's record.
4. Communicate the patient's respiratory care plan, response to therapy, and progress to other members of the health care team.
5. Perform suctioning through tracheostomy and endotracheal tubes (ETT).
6. Perform tracheostomy care.
7. Perform manual ventilation with self-inflating bag.
8. Select and insert oral and nasal airways to maintain airway patency.
9. Inflate and measure endotracheal and tracheostomy tube cuff pressures.
10. Securing the ETT with cloth tape or other appropriate devices.
11. Perform bedside ventilatory assessment such as Negative Inspiratory Force (NIF), Tidal Volume (TV), Vital Capacity (VC), and minute volume.
12. Set-up and test for function the mechanical ventilator prior to patient use.
13. Adjust ventilator settings per order or protocol.
14. Check and document ventilator-patient interface.
15. Administer respiratory care medications to mechanically ventilated patients.
16. Monitor and evaluate the patient's response to respiratory therapy.
17. Discuss the role of the respiratory care practitioner as part of the health care team in the intensive care unit (ICU).

RESP 213 Respiratory Care Techniques II (3) Spring

3 hours lecture per week

Prerequisite(s): Acceptance into the Associate in Science degree in Respiratory Care program.

Comment: Letter grade only. RESP 213 may not be taken credit / no credit. RESP 213 may be audited only upon approval of Respiratory Program Director and Instructor. RESP 213 will only be offered in Spring semesters.

RESP 213 introduces students to advanced respiratory care knowledge and techniques including assessment, hemodynamics, gas exchange, and other diagnostic studies.

Upon successful completion of RESP 213, the student should be able to:

1. Evaluate information from physical assessment of the critically ill patient on mechanical ventilation.
2. Describe the procedure for and importance of ventilation assessment.
3. Interpret and evaluate relevant diagnostic information as it relates to the patient's condition: ventilation, oxygenation, acid-base balance, chest radiograph, clinical laboratory studies, electrocardiogram, mixed venous saturation, and cardiac output.
4. Evaluate the hemodynamic measurements as they relate to the patient's condition.

5. Explain the clinical implications of using invasive and noninvasive pulmonary and cardiac monitoring to assess the critically ill patient.
6. Discuss the importance of nutrition of the critically ill patient on mechanical ventilation.
7. Discuss clinical case studies of common cardiopulmonary diseases.
8. Describe the inductive thinking process when evaluating clinical cases and organizing clinical information.

RESP 218 Cardiopulmonary Pharmacology (3) (Spring)

3 hours lecture per week

Prerequisite(s): Acceptance into the Associate in Science degree in Respiratory Care program.

Recommended Preparation: ENG 100 or MATH 100.

Comment: RESP 218 may not be taken credit/no credit. RESP 218 may be audited only upon approval of the Respiratory Care Program Director and Instructor. RESP 218 offers letter grade A, B, C, and F only (0-74% = F). There is no D grade possible for the course. RESP 218 is only offered in the Spring semester.

RESP 218 focuses on pharmacologic principles of drugs used in the ER and ICU settings as well as an overview of general principles of pharmacology. RESP 218 supports other courses where students learn how to deliver medications and assess response to those medications.

Upon successful completion of RESP 218, the student should be able to:

1. Describe drugs administered by the RCP in terms of indications, actions, routes, doses, delivery systems, and adverse reactions.
2. Discuss specialized equipment and techniques used to administer cardiorespiratory medications.
3. State basic principles of pharmacodynamics.
4. Recommend changes in medication, dose, or delivery systems.
5. Select appropriate medications and delivery systems based on pathophysiology and case interpretation.
6. Recommend appropriate cardiac and emergency drugs.
7. Calculate drug dosages.

RESP 222 Clinical Practice III (5)

An average of 32 clinical hours per week for 10 weeks

Prerequisite(s): Acceptance into the Associate in Science degree in Respiratory Care program.

RESP 222 enables students to implement advanced respiratory care skills and procedures in the hospital setting.

Upon successful completion of RESP 222, the student should be able to:

1. Perform routine physical assessment on the critically ill patient in the intensive care unit.
2. Interpret and evaluate diagnostic tests such as arterial blood gases, electrolytes, and chest x-rays.
3. Document results of the patient's assessment and diagnostic tests in the patient's record.
4. Communicate the patient's respiratory care plan, response to therapy, and progress to other members of the health care team.
5. Perform suctioning through tracheostomy and endotracheal tubes (ETT).
6. Perform tracheostomy care.
7. Perform manual ventilation with self-inflating bag.
8. Select and insert oral and nasal airways to maintain airway patency.
9. Inflate and measure endotracheal and tracheostomy tube cuff pressures. Secure the ETT with cloth tape or other appropriate devices.
10. Perform bedside ventilatory assessment such as Negative Inspiratory Force, Tidal Volume, Vital Capacity, and minute volume.
11. Set-up and test for function the mechanical ventilator prior to patient use.
12. Adjust ventilator settings per order or protocol.
13. Check and document ventilator-patient interface.
14. Administer respiratory care medications to mechanically ventilated patients.
15. Monitor and evaluate the patient's response to respiratory therapy.
16. Communicate with mechanically ventilated patient and relay his or her needs to other members of the health care team.

RESP 229 Advanced Cardiac Life Support (2) (Summer)

2 hours lecture per week

Prerequisite(s): Acceptance into the Associate in Science degree in Respiratory Care program.

Comment: Letter grade only. RESP 229 may not be audited. RESP 229 may not be taken credit/no credit. RESP 229 is only offered in the summer semester. Fees are required for RESP 229 for ACLS certification and for the advanced ECG portion of the course. Fees are approximately \$200 in addition to texts.

RESP 229 is a course that certifies students in advanced cardiac life support (ACLS) technique and theory utilizing the program developed by the American Heart Association. Students will also learn to perform and interpret 12-lead ECGs.

Upon successful completion of RESP 229, the student should be able to:

1. Describe drugs administered by the RCP in terms of indications, actions, routes, doses, delivery systems, and adverse reactions.
2. Apply ACLS algorithms in the 10 required cases.
3. Recommend changes in medication, dose, or delivery systems.
4. Select appropriate medications and delivery systems based on pathophysiology and case interpretation.
5. Recommend appropriate cardiac and emergency drugs.
6. Calculate drug dosages.
7. Perform 12 lead ECG and interpret rhythms.
8. Perform advanced airway management techniques.
9. Utilize the AED/Defibrillator to deliver electric therapy to the heart.
10. Successfully complete ACLS certification.
11. Discuss ethical implications of advanced life support.

RESP 300 Case and Disease Management in Cardiopulmonary Care (3) Fall

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher in MATH 100 and a grade of "C" or higher in ENG 100 and a grade of "C" or higher in RESP 100 and a grade of "C" or higher in RESP 101 and a grade of "C" or higher in RESP 200 and a grade of "C" or higher in RESP 201 and a grade of "C" or higher in RESP 202 and a grade of "C" or higher in RESP 203 and a grade of "C" or higher in RESP 210 and a grade of "C" or higher in RESP 211 and a grade of "C" or higher in RESP 212 and a grade of "C" or higher in RESP 213 and a grade of "C" or higher in RESP 218 and a grade of "C" or higher in RESP 222 and a grade of "C" or higher in RESP 229.

Comment: Letter grade only. RESP 300 may not be audited. RESP 300 may not be taken credit/no credit. RESP 300 is offered in the Fall semester only.

RESP 300 provides an overview of managed care and significant trends in healthcare policy. The course material covers theoretical concepts of case and disease management, the history and process of case and disease management and how it links to the practice of Cardiopulmonary Care. Various case management models and roles and their application in specialty roles and team models will be examined. The course studies local and national trends in various healthcare settings (acute care, community health, sub-acute, managed care organizations) and the implementation of case management models for the care of patients with cardiopulmonary disorders.

Upon successful completion of RESP 300, the student should be able to:

1. Define case management according to the CMSA and other defining sources
2. Describe the process and activities of case management
3. Identify and describe the legal issues in case management.
4. Identify and describe the ethical issues in case management.
5. Write a job description for a typical respiratory care case manager.
6. Describe the role of respiratory therapists as service providers in the process of case management and as case managers.
7. Discuss the role of case management in healthcare institutions including the hospital, long term care facilities, home care, health insurance providers.
8. Develop a cardiopulmonary patient care planning from initial assessment and treatment to discharge and home care.

RESP 301 Neonatal/Pediatric Respiratory Care (3) (Fall)

3 hours lecture per week

Prerequisite(s): Acceptance into the Associate in Science degree in Respiratory Care program.

Comment: Letter grade only. RESP 301 may not be audited. RESP 301 may not be taken credit/no credit.

RESP 301 is an introduction to the concepts and principles of neonatal and pediatric respiratory care as they relate to clinical practice.

Upon successful completion of RESP 301, the student should be able to:

1. Use neopuff (t-piece resuscitator).
2. Identify and explain the anatomy and physiology of maternal-fetal circulation.
3. List maternal factors that may affect the health of the fetus.
4. Complete the Heart Association course on Pediatric Advanced Life Support (PALS) and earn the course completion card.
5. Identify and explain current clinical use of advanced airway management and mechanical ventilation in Neonatal-Pediatric care settings.
6. Understand and explain Diagnostic tools used in Neonatal-Pediatric care.
7. Identify the components of the APGAR score and assessments of gestational age.

8. Explain the physiological changes that immediately occur after a normal birth.
9. Identify and explain therapeutic modalities used in Neonatal-Pediatric care.

RESP 302 Clinical Practice IV (4) (Fall)

12 hours hospital practice per week

Prerequisite(s): Acceptance to the Respiratory Care program.

Comment: Letter grade only. RESP 302 may not be audited. RESP 302 may not be taken credit/no credit. RESP 302 is offered in the Fall semester. Uniform, school patch, and stethoscope are required.

RESP 302 is an introductory course in application of neonatal/pediatric respiratory care skills and procedures in the clinical setting.

Upon successful completion of RESP 302, the student should be able to:

1. Perform routine physical assessment on premature, full-term newborn, and pediatric patients.
2. Interpret and evaluate diagnostic tests, including ABGs, capillary blood stick, and chest x-rays.
3. Monitor neonatal/pediatric patient's vital signs, including EKG monitoring, TCM, ETCO₂ monitor.
4. Communicate the patient's respiratory care plan, response to therapy, and progress to other members of the health care team.
5. Maintain the airway of neonatal and pediatric patients via bag-mask ventilation.
6. Set up and monitor non-invasive and invasive ventilators, adjust settings in relation to diagnostic tests.
7. Present a case study of a neonatal or pediatric patient.

RESP 312 Clinical Practice V (4) (Spring)

12 hours clinical per week

Prerequisite(s): Acceptance into the Associate in Science degree in Respiratory Care program.

Comment: Letter grade only. RESP 312 may not be taken credit/no credit. RESP 312 may be audited only upon approval of the Respiratory Care Program Director and Instructor. RESP 312 is only offered in the Spring semester. Uniform, school patch, scissors and stethoscope are required. A professional fee of up to \$500 is charged.

RESP 312 provides diagnostic laboratory observation, supervised experiences, with emphasis on performing diagnostic tests safely and correctly, and supervised continuing advanced critical care of respiratory patients.

Upon successful completion of RESP 312, the student should be able to:

1. Perform routine and advanced pulmonary function tests under supervision.
2. Observe diagnostic bronchoscopy, cardiopulmonary exercise testing, polysomnographic exams, neurodiagnostic exams, and, under supervision, assist with procedures.
3. Perform preventive maintenance and calibrations of cardiopulmonary diagnostic equipment.
4. Correlate anatomy and physiology of the cardiopulmonary system with procedures and techniques. Recognize, describe, and change factors that affect the quality of a diagnostic test.
5. Perform routine physical assessment on the critically ill patient in the intensive care unit, and interpret and evaluate diagnostic tests such as ABGs, electrolytes, and chest x-rays.
6. Document results of assessment and diagnostic tests in the patient's record, and communicate the patient's respiratory care plan, response to therapy, and progress to other members of the health care team. Perform suctioning through tracheostomy and endotracheal tubes (ETT), and perform tracheostomy care.
7. Perform manual ventilation with self-inflating bag.
8. Manage the airway, including selecting and inserting oral and nasal airways to maintain airway patency, inflating and measuring endotracheal and tracheostomy tube cuff pressures, and securing the ETT with cloth tape or other appropriate devices.
9. Perform bedside ventilatory assessment such as NIF, TV, VC, and minute volume.
10. Manage a mechanical ventilator, including set-up and test for function the mechanical ventilator prior to patient use, adjusting ventilator settings per order or protocol, checking and documenting ventilator-patient interface, administering respiratory care medications to mechanically ventilated patients.
11. Monitor and evaluate the patient's response to respiratory therapy.
12. Communicate with mechanically ventilated patient and relay his or her needs to other members of the health care team.
13. Participate in discussions about the role of the respiratory care practitioner as part of the health care team in the intensive care unit (ICU).
14. Apply universal precaution in the patient care setting.
15. Attend ICU rounds, Geriatric grand rounds, and physician and respiratory care departmental in-services.

RESP 313 Current Concepts in Cardiopulmonary Care (3) (Spring)

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher in ENG 100 and a grade of "C" or higher in RESP 100 and a grade of "C" or higher in RESP 101 and a grade of "C" or higher in RESP 200 and a grade of "C" or higher in RESP 201 and a grade of "C" or higher in RESP 202 and a grade of "C" or higher in RESP 203 and a grade of "C" or higher in RESP 211 and a grade of "C" or higher in RESP 212 and a grade of "C" or higher in RESP 213 and a grade of "C" or higher in RESP 218 and a grade of "C" or higher in RESP 222 and a grade of "C" or higher in RESP 229.

Comment: Letter grade only. RESP 313 may not be audited. RESP 313 may not be taken credit/no credit.

RESP 313 provides a review and analysis of current trends and concepts in the management of patients with cardiovascular, pulmonary and sleep associated disorders. The course material covers evidence and protocol based approaches to management of significant complex diseases and conditions such as ARDS/ALI, pulmonary tuberculosis, pulmonary hypertension, cardiac diseases, COPD, biological epidemics, and asthma management. Students will examine model practice guidelines and pathways, identify and evaluate research findings, and discuss methods for implementing best practice models in the modern healthcare system.

Upon successful completion of RESP 313, the student should be able to:

1. Identify and describe evidence-based medicine (EBM).
2. Identify different levels of evidence and associated research models.
3. Define and describe critical thinking in respiratory care.
4. Explain current trends in specific cardiopulmonary disease management, i.e., ARDS, Alpha1 antitrypsin deficiency, asthma, and ventilator discontinuation.
5. Evaluate methods of implementation and maintenance of protocols and EBM in the clinical environment.
6. Develop patient assessment and respiratory care plan.
7. Define and describe clinical problem solving.
8. Identify patient safety issues in cardiopulmonary care.
9. Discuss emerging or developing newer technologies or processes in cardiopulmonary care.

RESP 316 Cardiopulmonary Diagnostics (3) (Spring)

3 hours lecture per week

Prerequisite(s): Acceptance into the Associate in Science degree in Respiratory Care program.

Recommended Preparation: ENG 100 and MATH 100.

Comment: RESP 316 may not be taken credit/no credit. RESP 316 may be audited only upon approval of both Respiratory Therapy Program Director and instructor. RESP 316 is offered in the Spring semester only.

RESP 316 introduces students to pulmonary laboratory procedures and techniques including the Blood Gas Laboratory, Bronchoscopic Lung examination, Pulmonary Function Laboratory, Sleep Laboratory, and Neurodiagnostic examinations. The course emphasizes testing methods and protocols, interpretation of test results and correlation to disease states and appropriate therapeutic intervention.

Upon successful completion of RESP 316, the student should be able to:

1. Define the role of cardiopulmonary diagnostics in patient care.
2. Describe, evaluate, and interpret pulmonary function tests, and polysomnographic tests.
3. Describe and discuss the fundamentals of a lung bronchospic exam.
4. Describe and discuss the fundamentals of obtaining a 12-lead ECG tracing.
5. Describe and discuss arterial blood gas sampling procedures, including the care and maintenance of analyzers, co-oximeters, and blood gas electrodes.
6. Discuss stepwise approach to interpreting arterial blood gases, acid-base balance; correlate gases with interventions and disease states (CHF, COPD, mechanical ventilation).
7. Explain methods to diagnose lung volumes, capacities, and diffusion.
8. Explain methods and protocols to diagnose sleep-related disorders.
9. Explain methods and protocols to diagnose neurodiagnostic disorders.
10. Explain methods and protocols for cardiopulmonary exercise testing.

RESP 320 Respiratory Care Seminar (4) (Spring)

4 hours lecture per week

Prerequisite(s): Acceptance to the Respiratory Care program.

Comment: Letter grade only. RESP 320 may not be audited. RESP 320 may not be taken credit/no credit. Fees are required for RESP 320 for practice examinations. The current cost is \$150.

RESP 320 is a course designed to help students pass their national board exams and to help them put together an overall understanding of respiratory care in regards to overall respiratory care knowledge. The focus of the content is to review what has already been learned, and to cover specific areas of knowledge that are more challenging to retain in long term memory. The course also allows students the opportunity to demonstrate their applied learning and critical thinking skills for information gathering, decision making, and recommendations for patient care related to case analyses.

Upon successful completion of RESP 320, the student should be able to:

1. Given two attempts, pass the National Board for Respiratory Care sample Self Assessment Exam with a score of at least 70.

2. Given 10 clinical sample simulations, obtain a passing score for each.
3. Select one adult, pediatric, or neonatal patient to perform a case analysis. Provide relevant background clinical information to include: a. History and Physical Exam; b. Pathophysiology; c. Diagnostics; d. Treatment/Plan of care; e. In/Out patient course summary; and f. Recommendations.
4. Provide a 20 minute case presentation to include use of PowerPoint and/or other visual aids in relation to the patient case analysis selected.

RESP 322 Clinical Practice VI (4) (Summer)

12 hours clinical per week

Prerequisite(s): Acceptance into the Associate in Science degree in Respiratory Care program.

Comment: Letter grade only. RESP 322 may not be audited. RESP 322 may not be taken credit/no credit. Uniform, school patch, and stethoscope are required.

RESP 322 is a hospital-based course in the application of advanced respiratory care skills and procedures. Students are expected to consistently perform at an advanced level all skills learned in previous Respiratory Care courses.

Upon successful completion of RESP 322, the student should be able to:

1. Perform routine physical assessment on the critically ill patient in the intensive care unit, including the interpretation and evaluation of diagnostic tests, the calculation of shunt, dead space, static compliance and airway resistance.
2. Evaluate hemodynamic parameters such as CVP, SVR, PVR, MAP, PCWP, CO, and CI.
3. Identify basic abnormal and life-threatening ECG patterns.
4. Document results of assessment and diagnostic tests in the patient's record and communicate the results and the patient's respiratory care plan, response to therapy, and progress to other members of the health care team.
5. Manage the airway, including suctioning through tracheostomy and endotracheal tubes (ETT), performing tracheostomy care, selecting and inserting oral and nasal airways to maintain airway patency, inflating and measuring endotracheal and tracheostomy tube cuff pressures.
6. Perform bedside ventilatory assessment such as NIF, TV, VC, and minute volume.
7. Manage the mechanical ventilator (including NPPV), including set-up and test for function the mechanical ventilator prior to patient use, and make clinical recommendations based on various patient data.
8. Manage, with minimal supervision, a minimum of three ventilator patients in the ICU.
9. Identify the actions of common medications used in the ICU: antimicrobial agents, paralyzing agents, respiratory stimulants/depressants, and analgesics/anesthetics.
10. Participate in ICU rounds and physician and respiratory care departmental in-services.

SCIENCE

SCI 295 (Alpha) Science, Technology, Engineering, and Mathematics (STEM) Research Experience (1 - 3) KCC AA/DY

3 hours cooperative education/work experience per week per credit

Prerequisite(s): Consent of instructor.

Recommended Preparation: Completion of a lab science course as stipulated by the instructor.

Comment: Letter grade only. SCI 295 (alpha) may not be audited. SCI 295 (alpha) may not be taken credit/no credit.

SCI 295 (alpha) offers a research experience in science, technology, engineering and/or mathematics, emphasizing the application of the scientific method to a specific project.

Upon successful completion of SCI 295 (alpha), the student should be able to:

1. Formulate a hypothesis.
2. Design methods to test a hypothesis.
3. Collect and analyze data as appropriate.
4. Document and formally present results of hypothesis testing to an audience.
5. Enhance understanding of scientific concepts.
6. Collaborate as a member of a research team.
7. Work responsibly in a lab setting.

SCI 295BL STEM Research Experience in Biology and/or Marine Biology (1-3) KCC AA/DY

3 hours cooperative education /work experience per week per credit

Prerequisite(s): Consent of instructor.

Recommended Preparation: BIOL 171L or equivalent science lab course.

Comment: Letter grade only. SCI 295BL may not be audited. SCI 295BL may not be taken credit/no credit. SCI 295BL may be repeated for a maximum of 6 credits.

SCI 295BL offers a research experience in science, technology, engineering and/or mathematics, emphasizing the application of the scientific method to a specific project in biology and/or marine biology.

Upon successful completion of SCI 295BL, the student should be able to:

1. Formulate a hypothesis.
2. Design methods to test a hypothesis.
3. Collect and analyze data as appropriate.
4. Document and formally present results of hypothesis testing to an audience.
5. Enhance understanding of scientific concepts.
6. Collaborate as a member of a research team.
7. Work responsibly in a lab setting.

SCI 295BT STEM Research Experience in Botany (1-3) KCC AA/DY

3 hours cooperative education /work experience per week per credit

Prerequisite(s): Consent of instructor.

Recommended Preparation: Completion of a lab science course as stipulated by the instructor.

Comment: Letter grade only. SCI 295BT may not be audited. SCI 295BT may not be taken credit/no credit. SCI 295BT may be repeated for a maximum of 6 credits.

SCI 295BT offers a research experience in science (botany), technology, engineering and/or mathematics, emphasizing the application of the scientific method to a specific project in biology and/or marine biology.

Upon successful completion of SCI 295BL, the student should be able to:

1. Formulate a hypothesis.
2. Design methods to test a hypothesis.
3. Collect and analyze data as appropriate.
4. Document and formally present results of hypothesis testing to an audience.
5. Enhance understanding of scientific concepts.
6. Collaborate as a member of a research team.
7. Work responsibly in a lab setting.

SCI 295CH STEM Research Experience in Chemistry (1-3) KCC AA/DY

3 hours Cooperative Education/Work Experience per week per credit

Prerequisite(s): Consent of instructor.

Recommended Preparation: Credit in or concurrent enrollment in CHEM 161 and credit in or concurrent enrollment in 161L course, as stipulated by the instructor.

Comment: Letter grade only. SCI 295CH may not be audited. SCI 295CH may not be taken credit/no credit. SCI 295CH can be repeated up to a maximum of 6 credits.

SCI 295CH offers a research experience in science, technology, engineering and/or mathematics, emphasizing the application of the scientific method to a specific project in chemistry.

Upon successful completion of SCI 295CH, the student should be able to:

1. Formulate a hypothesis.
2. Design methods to test a hypothesis.
3. Collect and analyze data as appropriate.
4. Document and formally present results of hypothesis testing to an audience.
5. Enhance understanding of scientific concepts.
6. Collaborate as a member of a research team.
7. Work responsibly in a lab setting.

SCI 295CS STEM Research Experience in Computer Sciences (1 - 3) KCC AA/DY

1-3 hours cooperative education/work experience per week per credit

Prerequisite(s): Consent of instructor.

Recommended Preparation: Credit or concurrent enrollment in ICS 111.

Comment: Letter grade only. SCI 295CS may not be audited. SCI 295CS may not be taken credit/no credit. SCI 295CS can be repeated up to a maximum of 6 credits.

SCI 295CS offers a research experience in science, technology, engineering and/or mathematics, emphasizing the application of the scientific method to a specific project in computer sciences.

Upon successful completion of SCI 295CS, the student should be able to:

1. Formulate a hypothesis.
2. Design methods to test a hypothesis.
3. Collect and analyze data as appropriate.
4. Document and formally present results of hypothesis testing to an audience.
5. Enhance understanding of scientific concepts.
6. Collaborate as a member of a research team.
7. Work responsibly in a lab setting.

SCI 295EC STEM Research Experience in Ecology (1-3) KCC AA/DY

3 hours cooperative education/work experience per week per credit

Prerequisite(s): Consent of instructor.

Recommended Preparation: Completion of introductory or majors biology/ecology course or demonstrated interest in research or ecological management, as stipulated by the instructor.

Comment: Letter grade only. SCI 295EC may not be audited. SCI 295EC may not be taken credit/no credit. SCI 295EC may be repeated up to a maximum of 6 credits.

SCI 295 EC offers a research experience in emphasizing the application of the scientific method to an ecology project.

Upon successful completion of SCI 295EC, the student should be able to:

1. Formulate a hypothesis.
2. Design methods to test a hypothesis.
3. Collect and analyze data as appropriate.
4. Document and formally present results of hypothesis testing to an audience.
5. Enhance understanding of scientific concepts.
6. Collaborate as a member of a research team.
7. Work responsibly in a lab setting

SCI 295EN STEM Research Experience in Engineering (1 - 3) KCC AA/DY

1-3 hours cooperative education/work experience per week per credit

Prerequisite(s): Consent of instructor.

Recommended Preparation: Completion of a calculus-based physics course as stipulated by the instructor.

Comment: Letter grade only. SCI 295EN may not be audited. SCI 295EN may not be taken credit/no credit. SCI 295EN may be repeated for a maximum of 6 credit.

SCI 295EN offers research experience in science, technology, engineering and/or mathematics, emphasizing the application of the engineering design process to a specific project.

Upon successful completion of SCI 295EN, the student should be able to:

1. Formulate a hypothesis.
2. Design methods to test a hypothesis.
3. Collect and analyze data as appropriate.
4. Document and formally present results of hypothesis testing to an audience.
5. Enhance understanding of scientific concepts.
6. Collaborate as a member of a research team.
7. Work responsibly in a lab setting.

SCI 295ES STEM Research Experience in Environmental Science (1-3) KCC AA/DY

3 hours cooperative education/work experience per week per credit

Prerequisite(s): Consent of instructor.

Recommended Preparation: Completion of introductory or majors ecology or environmental science course or demonstrated interest in environmental science, as stipulated by the instructor.

Comment: Letter grade only. SCI 295ES may not be audited. SCI 295ES may not be taken credit/no credit.

SCI 295ES offers a research experience in Environmental Science emphasizing the application of the scientific method to research or projects.

Upon successful completion of SCI 295ES, the student should be able to:

1. Formulate a hypothesis or research question.
2. Design methods to test a hypothesis or research question.
3. Collect and analyze data as appropriate.
4. Document and formally present results of research project to an audience.
5. Enhance understanding of scientific concepts.
6. Collaborate as a member of a research team.
7. Work responsibly in a lab or field setting.

SCI 295MA STEM Research Experience in Mathematics (1-3) KCC AA/DY

3 hours cooperative education/work experience per week per credit

Prerequisite(s): Consent of instructor.

Recommended Preparation: Completion of a calculus course, eg., MATH 205 or higher.

Comment: Letter grade only. SCI 295MA may not be audited. SCI 295MA may not be taken credit/no credit.

SCI 295MA offers research experience in science, technology, engineering and/or mathematics, emphasizing the application of mathematical techniques to analyze or model a specific project.

Upon successful completion of SCI 295MA, the student should be able to:

1. Formulate a hypothesis
2. Design methods to test a hypothesis
3. Collect and analyze data as appropriate
4. Document and formally present results of hypothesis testing to an audience
5. Enhance understanding of scientific concepts
6. Collaborate as a member of a research team
7. Work responsibly in a lab setting

SCI 295MI STEM Research Experience in Microbiology and/or Molecular Biology (1-3) KCC AA/DY

3 hours cooperative education/work experience per week per credit

Prerequisite(s): Consent of instructor.

Recommended Preparation: Completion of a microbiology and/or molecular biology lab science course, as stipulated by the instructor.

Comment: Letter grade only. SCI 295MI may not be audited. SCI 295MI may not be taken credit/no credit. SCI 295MI may be repeated for a maximum of 6 credits.

SCI 295MI offers a research experience in science, technology, engineering and/or mathematics, emphasizing the application of the scientific method to a specific project in microbiology and/or molecular biology.

Upon successful completion of SCI 295MI, the student should be able to:

1. Formulate a hypothesis.
2. Design methods to test a hypothesis.
3. Collect and analyze data as appropriate.
4. Document and formally present results of hypothesis testing to an audience.
5. Enhance understanding of scientific concepts.
6. Collaborate as a member of a research team.
7. Work responsibly in a lab setting.

SCI 295PL STEM Research Experience in Physiology (1 - 3) KCC AA/DY

1-3 hours cooperative education/work experience per week per credit

Prerequisite(s): Consent of instructor.

Recommended Preparation: Completion of a lab science course as stipulated by the instructor.

Comment: Letter grade only. SCI 295PL may not be audited. SCI 295PL may not be taken credit/no credit. SCI 295PL may be repeated for a maximum of 6 credits.

SCI 295PL offers a research experience in physiology, emphasizing the application of the scientific method to a specific project.

Upon successful completion of SCI 295PL, the student should be able to:

1. Formulate a hypothesis.
2. Design methods to test a hypothesis.
3. Collect and analyze data as appropriate.
4. Document and formally present results of hypothesis testing to an audience.
5. Enhance understanding of scientific concepts.
6. Collaborate as a member of a research team.
7. Work responsibly in a lab setting.

SCI 295PS STEM Research Experience in Physics (1 - 3) KCC AA/DY

1-3 hours cooperative education/work experience per week per credit

Prerequisite(s): Consent of instructor.

Recommended Preparation: Credit or concurrent enrollment in PHYS 170 and PHYS 170L.

Comment: Letter grade only. SCI 295PS may not be audited. SCI 295PS may not be taken credit/no credit. SCI 295PS can be repeated up to a maximum of 6 credits.

SCI 295PS offers a research experience in science, technology, engineering and/or mathematics, emphasizing the application of the scientific method to a specific project in physics.

Upon successful completion of SCI 295PS, the student should be able to:

1. Formulate a hypothesis.
2. Design methods to test a hypothesis.
3. Collect and analyze data as appropriate.
4. Document and formally present results of hypothesis testing to an audience.
5. Enhance understanding of scientific concepts.
6. Collaborate as a member of a research team.
7. Work responsibly in a lab setting.

SECOND LANGUAGE TEACHING

SLT 102 Language Learning (3) KCC AA/DS

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher or concurrent enrollment in ENG 100 or a grade of "C" or higher or concurrent enrollment in ESL 100.

Comment: Students must do Service Learning in the Education pathway as a requirement of this course.

SLT 102 introduces the post-method viewpoint of learning in the classroom. The course will begin with identifying the students' intuitions and insights about language learning. Students will then examine different language learning goals and needs as well as explore some basic needs in order for language to be acquired and factors that can accelerate or hinder language learning. In the second portion of the course, students will be introduced to ethnographic case studies of language learners and learn how to do their own ethnographic study on an individual or on one group of student language learners.

Upon successful completion of SLT 102, the student should be able to:

1. Describe the language development cycle, including each stage.
2. Describe the various language learning frameworks commonly found in educational settings.
3. Describe the various motivational and socio-cultural characteristics of language learners.
4. Create scenarios of various language learning situations.
5. Complete an ethnographic study of a language learner including:
 - Observation
 - Interview
 - Artifact collection
 - Secondary research
 - Data analysis
 - Data reporting

SLT 103 Language Teaching (3) KCC AA/DS

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher or concurrent enrollment in ENG 100 or a grade of "C" or higher or concurrent enrollment in ESL 100.

Comment: Students must do Service Learning in the Education pathway as a requirement of this course.

SLT 103 introduces the post-method viewpoint of teaching in the classroom. The course will begin by identifying the students' intuitions and insights about language teaching. The students will examine ways that instruction can facilitate and accelerate language learning. The students will explore how heritage language, motivation, learning styles, variation in input, etc. can influence their teaching. As the students address the issues of language teaching, they will develop their own definitions of second language pedagogy. In the second portion of the course, students will be introduced to ethnographic case studies of language teachers and learn how to do their own ethnographic study on one teacher's classroom practices.

Upon successful completion of SLT 103, the student should be able to:

1. Describe language teaching in the context of the language development cycle, including each stage
2. Describe the various language teaching frameworks commonly found in educational settings
3. Describe how the various motivational and socio-cultural characteristics of language learners can influence their teaching
4. Describe their own definitions of second language pedagogy
5. Complete an ethnographic study of a language teacher including:
 - Observation
 - Interview
 - Artifact collection
 - Secondary research
 - Data analysis
 - Data reporting

SLT 202 (Alpha) Concepts and Issues in Second Language Teaching (SLT) (3) KCC AA/DH

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher or concurrent enrollment in ENG 100 or a grade of "C" or higher or concurrent enrollment in ESL 100; and a grade of "C" or higher or concurrent enrollment in SLT 102 or consent of instructor.

Comment: Students must do Service Learning in the Education pathway as a requirement of this course.

SLT 202 (Alpha) continues the exploration of classroom-based language development. SLT 202 (Alpha) students begin the course by exploring language skills from various perspectives and investigating the different ways that research and experts view instruction of language skills in various classroom settings. SLT 202 (Alpha) students also explore the relationship between pedagogy and language skills development and compile a portfolio of strategies for helping learners develop language skills.

Upon successful completion of SLT 202 (Alpha), the student should be able to:

1. Describe language skills from various perspectives
2. Discuss concepts and issues associated with the instruction of language skills in various classroom settings
3. Create and implement lesson plans, activities, and materials that are appropriate for developing language skills in various classroom settings
4. Compile a teaching strategies portfolio that contains lesson plans, activities, and materials for developing language skills in various classroom settings

SLT 202B Concepts and Issues in Second Language Teaching (SLT) – Language Skills (3) KCC AA/DH

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher or concurrent enrollment in ENG 100 or a grade of "C" or higher or concurrent enrollment in ESL 100; and a grade of "C" or higher or concurrent enrollment in SLT 102 or consent of instructor.

Comment: Students must do Service Learning in the Education pathway as a requirement of this course.

SLT 202B continues the exploration of classroom-based language development. SLT 202B students begin the course by exploring language skills from various perspectives and investigating the different ways that research and experts view instruction of language skills in various classroom settings. SLT 202B students also explore the relationship between pedagogy and language skills development and compile a portfolio of strategies for helping learners develop language skills.

Upon successful completion of SLT 202B, the student should be able to:

1. Describe language skills from various perspectives
2. Discuss concepts and issues associated with the instruction of language skills in various classroom settings
3. Create and implement lesson plans, activities, and materials that are appropriate for developing language skills in various classroom settings
4. Compile a teaching strategies portfolio that contains lesson plans, activities, and materials for developing language skills in various classroom settings

SLT 203 (Alpha) Integrating Content and SLT (3)

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher or concurrent enrollment in ENG 100 or a grade of "C" or higher or concurrent enrollment in ESL 100; and a grade of "C" or higher or concurrent enrollment in SLT 103 or consent of instructor.

Comment: Students must do Service Learning in the Education pathway as a requirement of this course.

SLT 203 (Alpha) introduces students to strategies for using content to facilitate second language development. SLT 203 (Alpha) students begin by exploring different strategies necessary for developing language in content classrooms. Then the students examine activities and materials appropriate for developing language skills in specific content areas, such as language arts, mathematics, science and social studies. The students also conduct case studies of a content classroom and develop activities, materials and lesson plans appropriate for facilitating language development in that setting.

Upon successful completion of SLT 203 (Alpha), the student should be able to:

1. Describe the strategies necessary for developing language through content
2. Describe critical issues for creating lesson plans to facilitate language development
3. Conduct case-study research on language learners in language classrooms including:
 - a. Observation
 - b. Analysis
 - c. Reporting

4. Create and implement content-based activities, materials and lesson plans that are appropriate for particular language learners and contexts
5. Compile a teaching portfolio that contains activities, materials and lesson plans for facilitating language development

SLT 203B General Education (3)

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher or concurrent enrollment in ENG 100 or a grade of "C" or higher or concurrent enrollment in ESL 100; and a grade of "C" or higher or concurrent enrollment in SLT 103 or consent of instructor.

Comment: Students must do Service Learning in the Education pathway as a requirement of this course.

SLT 203B introduces students to strategies for using content to facilitate second language development. SLT 203B students begin by exploring different strategies necessary for developing language using the content of general education classrooms. Then the students examine activities and materials appropriate for developing language skills in specific general education content areas, such as language arts, mathematics, science and social studies. The students also conduct a case study of a general education classroom and develop activities, materials and lesson plans appropriate for facilitating language development in that setting.

Upon successful completion of SLT 203B, the student should be able to:

1. Describe the strategies necessary for developing language using general education content
2. Describe critical issues for creating lesson plans and materials to facilitate language development using general education content
3. Conduct case-study research on language learners in various general education classrooms including:
 - a. Observation
 - b. Analysis
 - c. Reporting
4. Create and implement content-based activities, materials and lesson plans that are appropriate for particular language learners in various general education classrooms
5. Compile a teaching portfolio that contains activities, materials and lesson plans for facilitating language development using general education content

SLT 290 Second Language Assessment (3)

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher or concurrent enrollment in ENG 100 or a grade of "C" or higher or concurrent enrollment in ESL 100; and a grade of "C" or higher or concurrent enrollment in SLT 202 or consent of instructor; and a grade of "C" or higher or concurrent enrollment in SLT 203 or consent of instructor.

Comment: Students must do Service Learning in the Education pathway as a requirement of this course.

SLT 290 introduces students to strategies for using assessment to facilitate second language development. SLT 290 students begin by examining issues associated with assessing content-area language needs of students. Then the students examine issues associated with assessing materials appropriate for facilitating language development of students in content-area classrooms. The students also do a study of language needs and activities in a content-area classroom.

Upon successful completion of SLT 290, the student should be able to:

1. Describe language standards at the national, state and local levels
2. Describe the various types of language assessment conducted in the content-area classroom
3. Conduct assessments of materials that are appropriate for facilitating language development in content-area classrooms
4. Conduct various types of survey research on language in content-area classrooms including:
5. Standards
 - a. Needs
 - b. Skills
 - c. Peer and Self-Assessment
 - d. Development
6. Compile a portfolio that contains materials assessments and survey research on language

SOCIAL SCIENCE

SSCI 102 Society and Food (3) KCC AA/FGB and KCC AS/SS

3 hours lecture per week

Prerequisite(s): Qualification for ENG 100 or qualification for ESL 100.

SSCI 102 is a cross-cultural and multidisciplinary social science introduction exploring socio-cultural, political, economic, and psychological dimensions of food in relation to cultural traditions and patterns in its production and consumption. The course has a strong integrated global and historical approach exploring central social science themes such as ethnicity, social status, religion, gender, as well as social and environmental sustainability.

Upon successful completion of SSCI 102, the student should be able to:

1. Demonstrate knowledge of cultural meanings of food representing the perspectives of different societies and how food habits are influenced by socio-cultural traditions such as religion beliefs, social status, perceptions of health, and gender relations.
2. Identify food production and consumption patterns as the core element of the evolution of different socio-cultural structures through time in different regions, including Africa, the Americas, Asia, Europe, and Oceania.
3. Demonstrate knowledge of indigenous food traditions and methods of sustainability and how globalization, colonization, trade, and migrations have shaped these indigenous food practices (with particular emphasis on the Pacific/Oceania).
4. Explain how globalization, colonization, trade, and migrations have shaped indigenous food traditions as well as methods and practices of sustainability with particular emphasis on Pacific/Oceania.
5. Describe historical and contemporary challenges to social and environmental sustainability in relation to food systems and identify some alternative strategies to the conventional food system.

SSCI 200 Social Science Research Methods (3) KCC AA/DS

3 hours lecture per week

Prerequisite(s): Qualification for ENG 100 and qualification for MATH 100.

Comment: Letter grade only. SSCI 200 may not be audited. SSCI 200 may not be taken credit/no credit.

SSCI 200 introduces research design methods, selection of data collection approaches, use of specialized statistical software to analyze the data, data interpretation, and dissemination of findings.

Upon successful completion of SSCI 200, the student should be able to:

1. Apply critical thinking skills to solve research problems.
2. Demonstrate the basic skills required to perform social science research in an applied field.
3. Demonstrate the techniques to perform elementary statistical analysis of data with computer assistance.

SSCI 260 Society and Food (3) KCC AA/DS and KCC AS/SS

3 hours lecture per week

Prerequisite(s): Qualification for ENG 100.

SSCI 260 harnesses concepts and approaches in a variety of social science fields to explore patterns and variations in food production, distribution, and consumption in historical and contemporary contexts. The course examines the way in which socio-cultural, political, and economic forces interact to influence food habits and nutritional status. The course explores central social science themes such as religion, inequality, gender, media and corporate capitalism as they relate to food consumption. SSCI 260 examines issues of social and environmental sustainability with particular emphasis on industrial food systems and alternative approaches.

Upon successful completion of SSCI 260, the student should be able to:

1. Describe the global history of food production and consumption patterns in connection with issues of social and environmental sustainability.
2. Evaluate key social and environmental challenges to food system sustainability in the contemporary industrial food system and some alternative strategies to the dominant food system.
3. Discuss how the meaning of food, food habits, and perceptions of health are influenced by cultural and religious perspectives.
4. Describe how the individual relates to the wider issues of sustainability.
5. Describe how traditional and indigenous perspectives inform practices of sustainability.
6. Define the social construction of obesity, ideal body, and gender identity.
7. Articulate the concept of food insecurity and its relationship to inequality and sustainable food systems.
8. Identify strategies used by the food industry to influence consumption patterns and food regulatory policies.
9. Express and communicate ideas and opinions clearly in writing.

SOCIAL SCIENCES

SOCS 225 Statistical Analysis for Social Sciences (3) KCC AA/DS

3 hours lecture per week

Prerequisites: Qualification for ENG 100; and qualification for MATH 100 or qualification for a higher-level mathematics course; and a grade of "C" or higher in PSY 100 or a grade of "C" or higher in SOC 100 or a grade of "C" or higher in ANTH 151 or a grade of "C" or higher in ECON 130 or a grade of "C" or higher in POLS 110 or a grade of "C" or higher in FAMR 230 or a grade of "C" or higher in GEOG 101 or a grade of "C" or higher in GEOG 102 or a grade of "C" or higher in GEOG 151 or a grade of "C" or higher in JOUR 150 or a grade of "C" or higher in WS 202.

SOCS 225 uses statistical reasoning in the analysis of social science data. Topics covered include descriptive statistics, probability, parameter estimation, hypothesis testing, tests for independent and dependent measures, analysis of variance, correlation and regression, and nonparametric statistical tests.

Upon successful completion of SOCS 225, the student should be able to:

1. Organize, summarize, and communicate a group of numerical observations using different types of descriptive statistics.
2. Make general estimates about the larger population using different types of inferential statistics.
3. Interpret advanced statistical procedures in research articles.

SOCIOLOGY

SOC 100 Introduction to Sociology (3) KCC AA/DS and KCC AS/SS

3 hours lecture per week

Prerequisite(s): Qualification for ENG 100 and qualification for MATH 82.

SOC 100 is an introduction to the scientific discipline of sociology. It will focus on key concepts, main theoretical perspectives, and research findings used by sociologists to explain the social world and social interaction. The course examines the fundamental components and institutions that make up the structure of human societies as well as the basic processes and direction of social change.

Upon successful completion of SOC 100, the student should be able to:

1. Identify the basic social institutions of a society in terms of structure, function, change and interrelationships.
2. Evaluate arguments and ideas about human social behavior in relation to sociological theories.
3. Apply sociological theories and explanations to contemporary social processes and events.
4. Describe the societal roots of social processes and social problems and how societal and cultural processes affect individuals' behavior and thinking patterns.
5. Identify one's own values and behavior in relation to larger social forces.
6. Evaluate the process, assumptions, strengths, and limitations of the scientific method.
7. Critically evaluate social research data.
8. Express and communicate ideas and opinions clearly in writing.
9. Apply a global perspective when examining social processes and events.

SOC 214 Introduction to Race and Ethnic Relations (3) KCC AA/DS and KCC AS/SS

3 hours lecture per week

Prerequisite(s): Qualification for ENG 100 and qualification for MATH 82.

Recommended Preparation: SOC 100.

SOC 214 focuses on race and ethnic relations in world perspective; social, economic and political problems associated with perception, existence, and accommodation of varying racial and ethnic groups within the wider society.

Upon successful completion of SOC 214, the student should be able to:

1. Identify the major ways in which "race" has been defined throughout human history.
2. Identify "races" and "ethnic groups".
3. Compare and contrast varying racial and ethnic groups that make up the population of the American society and discuss the diversity in backgrounds.
4. Describe the basic social processes that affect societies and individual behavior.
5. Give examples of the relationship of individuals and the social and cultural environment.
6. Evaluate predictions concerning the size and composition of the minority populations being studied for the future.
7. Describe how prejudice and discrimination may be related, or unrelated, to each other.
8. Identify the components of assimilation, including the less tangible aspects such as values, sentiments, and attitudes.
9. State ideas and opinions clearly in writing.

10. Define and give examples of each of the major patterns of intergroup relations, assimilation, pluralism, subjugation, segregation, expulsion, and annihilation.
11. Describe the theoretical perspectives that relate to the study of race and ethnic relations.
12. Apply a global perspective when examining race and ethnic relations.

SOC 218 Introduction to Social Problems (3) KCC AA/DS and KCC AS/SS

3 hours lecture per week

Prerequisite(s): Qualification for ENG 100 and qualification for MATH 82.

Recommended Preparation: SOC 100.

SOC 218 focuses on theoretical and substantive survey of the nature and causes of social problems; selected problems will vary from semester to semester.

Upon successful completion of SOC 218, the student should be able to:

1. Apply critical thinking skills to evaluate social problems.
2. Evaluate proposed solutions to social problems.
3. Define sets of circumstances that become problematic for large segments of the population.
4. Identify attitudinal changes toward social problems.
5. Give examples of an objective approach to the observation and analysis of social problems in society.
6. Demonstrate a global perspective when examining social problems, issues and concerns.
7. Describe the theoretical perspectives that relate to the study of social problems.
8. Evaluate and explain thoughts, feelings and ideas relevant to selected social issues.

SOC 231 Introduction to Juvenile Delinquency (3) KCC AA/DS and KCC AS/SS

3 hours lecture per week

Prerequisite(s): Qualification for ENG 100 and qualification for MATH 82.

Recommended Preparation: SOC 100.

SOC 231 covers the sociological analysis of the social realities of juvenile delinquency in contemporary societies, its nature, prevalence, etiology, treatment and future.

Upon successful completion of SOC 231, the student should be able to:

1. Define juvenile delinquency, in particular, socio-legal and statistical characterizations of that form of youthful deviance.
2. Explain the underlying, finite and multiple causes of juvenile delinquency that refer in particular to the sociogenic, psychogenic, and biogenic etiologies popularly offered in the sociological study of juvenile delinquency.
3. Give examples of official and unofficial reactions to youthful offenders, especially in light of victim and offender characteristics, Juvenile Justice System policies and operations, and community sensitivity to and reporting of the problem (victimization surveys) of delinquency.
4. Explain the Juvenile Justice System: its background, functions, interrelations, structure, and its evaluation in the prevention of juvenile delinquency.
5. Give examples of the family as a malfunctioning institution and as a preventive institution.
6. Give examples of the school as a dysfunctional institution and as another preventive institution.
7. Identify the career stages in the development of a juvenile delinquent.
8. Identify the types of delinquents in terms of their being official and quasidelinquents.
9. Give examples of the nature of delinquent gangs; their structure, functions, dynamics, and etiology.
10. Describe the hidden delinquency patterns of American youths.
11. Explain the class and sex variations of juvenile delinquents, especially in light of racism and sexism in the Juvenile Justice System.
12. Evaluate the varied sociological research methodologies and panel presentations.

SOC 251 Introduction to Sociology of the Family (3) KCC AA/DS and KCC AS/SS

3 hours lecture per week

Prerequisite(s): Qualification for ENG 100 and qualification for MATH 82.

Recommended Preparation: SOC 100.

SOC 251 examines family patterns, mate selection, parent-child interaction, socialization of roles, legal sanctions, and trends in organization and functions. The theoretical and empirical bases are related to the students' experiences and observations.

Upon successful completion of SOC 251, the student should be able to:

1. Employ the sociological perspective and research methods in studying marriage and family.
2. Recognize the basic sociological theories and concepts that have been employed in the study of marriage and family.
3. Examine the origins of such basic institutions including their life cycles.
4. Identify diverse and universal forms of marriage and family and their impact on American societies.
5. Identify the major societal changes affecting marriage and family and their resultant institutional consequences.
6. Demonstrate awareness of family dysfunction and its impact on society.
7. Recognize the family's role in modern society, and speculate about the future of marriage and family as global institutions.

SOC 257 Sociology of Aging (3) KCC AA/DS and KCC AS/SS

3 hours lecture per week

Prerequisite(s): Qualification for ENG 100 and qualification for MATH 82.

Recommended Preparation: SOC100.

SOC 257 is an overview of significant sociological perspectives, social issues, and empirical social science research pertaining to the phenomenon of aging in society.

Upon successful completion of SOC 257, the student should be able to:

1. Give examples of aging as a social phenomenon and not simply as a biological process.
2. Evaluate and interpret ageism and other social attitudes, values, and practices with respect to aging and their implication on the aging experience.
3. Identify global and diverse perspective in the understanding of social issues, problems, and concerns in aging society.
4. Identify fundamental concepts of aging issues and societal changes as they reflect demographic, economic, political, ethnic, family, health and long-terms care dynamics of aging society.
5. Differentiate between and evaluate major social gerontology theories to the explanation of aging as a socio phenomenon.
6. Apply and interpret social science research findings in relation to societal roots of the aging experience.
7. Express and communicate ideas clearly in writing.

SPANISH

SPAN 101 Elementary Spanish I (4) KCC AA/HSL

4 hours lecture per week

SPAN 101 is an introduction to the sounds and basic structures of the Spanish language emphasizing the acquisition of speaking, writing, reading, and listening comprehension skills for communicative proficiency, and an appreciation of the essential elements of Hispanic culture in the context of Spanish-speaking countries.

Upon successful completion of SPAN 101, the student should be able to:

1. Produce the sounds of Spanish and read words with acceptable pronunciation.
2. Reproduce simple patterns of speech based on classroom models with acceptable pronunciation.
3. Respond orally to familiar simple conversational models to demonstrate communicative competency at a basic level.
4. Read aloud familiar materials with pronunciation comprehensible to a native-speaker.
5. Write phrases in Spanish that demonstrate appropriate use of present tense grammatical forms in familiar contexts.
6. Demonstrate knowledge of essential geography and basic concepts of Hispanic culture, and contrastive cultural practices in the context of six countries where Spanish is spoken.

SPAN 102 Elementary Spanish II (4) KCC AA/HSL

4 hours lecture per week

Prerequisite(s): A grade of "C" or higher in SPAN 101 or satisfactory score on language placement test or consent of instructor.

SPAN 102 is a continuation of SPAN 101 with further development of basic Spanish sentence structures, vocabulary, reading, oral and written communication skills and an enhanced appreciation of Hispanic culture.

Upon successful completion of SPAN 102, the student should be able to:

1. Reproduce patterns of speech based on classroom models with acceptable pronunciation.
2. Respond orally in natural conversation to demonstrate communicative competency.
3. Read aloud familiar materials with pronunciation comprehensible to a native-speaker.
4. Write simple sentences in Spanish that demonstrate appropriate use of grammatical forms in familiar contexts.
5. Demonstrate knowledge of basic concepts of Hispanic culture presented in class.

SPAN 201 Intermediate Spanish I (3) KCC AA/HSL

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher in SPAN 102 or satisfactory score on language placement test or consent of instructor.

SPAN 201 reviews and expands upon the basic language skills acquired in Beginning Spanish through reading, writing, grammar review, introduction of more detailed and advanced functional grammar concepts, vocabulary development, listening comprehension, conversation and oral presentations. Communicative practice with peers, native-speakers, and the instructor will enhance fluency and develop confidence in written and oral expression. Thematic discussion topics, and regional area studies of Spanish-speaking countries will develop critical thinking skills, expressed in Spanish, and enhance knowledge, appreciation and awareness of the countries and cultures where Spanish is spoken.

Upon successful completion of SPAN 201, the student should be able to:

1. Demonstrate through class discussion, conversation, and writing, the ability to read, understand, analyze and comment upon short, non-technical articles related to daily life, society, excerpts from literature, and Hispanic countries and cultures.
2. Demonstrate through class discussion, conversation, and writing the integration of the elements of Spanish vocabulary, pronunciation, and grammatical structure to the ability to communicate to a native-speaker and be understood on topics related to Hispanic countries and cultures.
3. Demonstrate through class discussion, presentations, conversation, and writing an understanding of some essential aspects of the culture, geography, and important figures of at least five Hispanic countries or geographical regions.
4. Demonstrate through class discussion, conversation, and writing the integration of the elements of Spanish vocabulary, pronunciation, and grammatical structure the ability to communicate to a native-speaker and be understood on topics related to daily life, society, and Hispanic cultures.

SPAN 202 Intermediate Spanish II (3) KCC AA/HSL

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher in SPAN 201 or satisfactory score on the language placement test or consent of instructor.

SPAN 202 reviews and expands upon the early intermediate language skills acquired in Intermediate Spanish I through increasingly advanced reading, writing, grammar review, introduction of more detailed functional grammar concepts, vocabulary development, listening comprehension, conversation, and oral and written presentations. Communicative practice with peers, native-speakers, and the instructor will enhance fluency and develop confidence in written and oral expression. Thematic discussion topics, and regional area studies of Spanish-speaking countries will develop critical thinking skills, expressed in Spanish, and enhance knowledge, appreciation and awareness of the countries and cultures where Spanish is spoken.

Upon successful completion of SPAN 202, the student should be able to:

1. Demonstrate, through class discussion, conversation, and writing, the ability to read, understand, and talk about short, cultural articles related to society and Hispanic and American cultures.
2. Demonstrate, through class discussion, conversation, and writing one- to two-page essays about the integration of the elements of vocabulary and grammatical structures of Spanish necessary to communicate on most topics related to society and Hispanic and American cultures.
3. Communicate orally on topics related to society, and Hispanic and American cultures with pronunciation comprehensible to a native speaker.
4. Demonstrate through class discussion, conversation, and writing, an understanding of the essentials of history, culture and society of Spain and Latin American countries.

SPAN 250 Latin American Literature and Culture (3) KCC AA/DL

3 hours lecture per week

Prerequisite(s): A grade of "C" or higher in SPAN 202 or a grade of "C" or higher in an equivalent course or consent of instructor.

SPAN 250 is a study of selected excerpts from works of Latin American literature from the pre-Columbian era to the present, focusing on how the literature represents the history, culture and society of Spanish-speaking Latin American countries and peoples. Taught in Spanish at the high intermediate level, this course is especially recommended for students considering a Spanish certificate or major at UH Mānoa, heritage speakers, and qualified students who seek back credits in Spanish.

Upon successful completion of SPAN 250, the student should be able to:

1. Consider a work of literature as a reflection of its cultural milieu and compare that milieu with his/her own.
2. Analyze and evaluate the theme and style of representative literary excerpts and how they represent an expression of the cultural, historical, social, and geographical contexts of a particular Latin American region or people; especially with respect to Identity, Gender, Social Justice/Human Rights, Globalization, and Environment.
3. Describe in writing and discussion the uniqueness and diversity among cultural and national groups of Latin America.
4. Describe in writing and discussion the similarities of theme, style, and purpose that characterize Latin American literature.
5. Participate in discussions about Latin American literature and culture using appropriate vocabulary, grammar, reading, speaking, and writing skills.
6. Communicate thoughts, background knowledge, ideas, and opinions using Intermediate level Spanish, orally and in writing, with sufficient skill to be understood as a native speaker.
7. Explain in writing the need for literary evidence to support opinions and ideas regarding a literary work.
8. Recognize the universality in human experience, as well as the qualities that make a particular ethnic or cultural group distinct.
9. Explain the importance of selected major Latin American authors, from the Pre-Columbian era to the present, as literary figures and representatives of their culture and society.

SPEECH

SP 151 Personal and Public Speech (3) KCC AA/OC and KCC AA/DA

3 hours lecture per week

Recommended preparation: Qualification for ENG 100 or qualification for ENG 160 or qualification for ESL 100.

SP 151 emphasizes the development of oral communication skills vital in career and personal life. Focus is on principles and skills of effective interpersonal communication, small group discussions, and public speeches.

Upon successful completion of SP 151, the student should be able to:

1. Apply principles of effective verbal and nonverbal communication in interpersonal, small group, and public speaking situations.
2. Identify strengths and weaknesses in your own and others' interpersonal, group, and public communication.
3. Define and demonstrate the basic principles of verbal and nonverbal communication in an interview, small group discussion/presentation, and public speeches.
4. Analyze an audience and adapt a message to listeners in various communication situations.
5. Organize and formally outline ideas with appropriate and adequate supporting materials in an interview, small group, and informative and persuasive speeches.
6. Develop critical listening skills and demonstrate appropriate audience behaviors in various communication situations.
7. Develop self-confidence and competence as a personal and public communicator.

SP 181 Interpersonal Communication (3) KCC AA/DS and KCC AA/OC and KCC AS/SS

3 hours lecture per week

Recommended Preparation: Qualification for ENG 100 or qualification for ESL 100.

SP 181 explores the theories and practical skills to be a competent communicator in person-to-person situations. Topics include perception, verbal and nonverbal communication, emotion, listening, and conflict management. Students work individually, in pairs, and in small groups to expand their knowledge and understanding of the role communication plays in the development and maintenance of interpersonal relationships in personal, social, and professional contexts.

Upon successful completion of SP 181, the student should be able to:

1. Describe how the communication process and perception shape our communication.
2. Explain the role self-concept plays in your communication.
3. Differentiate between verbal and nonverbal communication.
4. Describe the complex nature of the listening process.
5. Identify the stages of relational development.
6. Describe effective conflict management strategies.

SP 233 Oral Traditions of Storytelling (3) KCC AA/DA

3 hours lecture per week

Recommended Preparation: ENG 100 or ESL 100.

SP 233 is an introduction to the oral traditions of storytelling with emphasis on the historical, cultural, and performance perspectives. Students present stories and learn how to analyze their forms.

Upon successful completion of SP 233, the student should be able to:

1. Select and share stories from cultures that follow oral traditions.
2. Analyze stories in terms of character, plot development, setting, cultural context and theme.
3. Complete an oral history study.
4. Complete a critical self-assessment.
5. Present stories with appropriate use of body and voice.
6. Incorporate memory techniques in presentations.
7. Evaluate the performance of others.

SP 251 Principles of Effective Public Speaking (3) KCC AA/OC and KCC AA/DA and KCC AS/AH

3 hours lecture per week

Recommended Preparation: SP 151 or ENG 100 or ENG 160 or ESL 100.

SP 251 focuses on speech composition and delivery. Emphasis is on critical thinking, clear organization, research skill, appropriate verbal and visual support, and lively delivery. Students present speeches, complete self-analysis papers of their speeches, critique presentations, and evaluate reasoning on important topics.

Upon successful completion of SP 251, the student should be able to:

1. Analyze an audience and apply principles to topic selection.
2. Develop, present, and defend positions on important issues.
3. Organize and formally outline a variety of speeches.
4. Support ideas using a variety of evidence and research.
5. Present ideas with appropriate use of body and voice.
6. Provide oral and written feedback to other speakers.
7. Describe a speaker's ethical responsibilities.
8. Identify speech strengths and areas to improve through written self-analysis of presentations.