



**BryanLGH**  
**COLLEGE of HEALTH SCIENCES**



**2011-2012 CATALOG**



# TABLE OF CONTENTS

## General Information

Mission & Vision .....	4
College Goals .....	4
Purpose .....	4
Values Statement .....	4
Statement of Diversity.....	5
Philosophy-Diversity.....	5
Non-Discrimination Policy.....	5
Assessment of Student Learning.....	5
History .....	5
Campus Facilities .....	6
Degrees/Certificates Offered .....	6
Accreditation/Licensure.....	7
Alumni Association .....	7

## Admission

Admission Policies .....	10
Application Procedure.....	10
Students-at-Large.....	10
International/Permanent	
Resident Students .....	10
Transfer Students .....	11
Transfer of Credit .....	11
Credit by Waiver .....	12
Credit by Examination .....	12
Advanced Placement.....	12
Contact Information-Admissions .....	12

## Financial Information

Tuition and Fees.....	14
Tuition Collection & Payment Policy ..	14
Tuition Refund Schedule.....	14
Financial Aid .....	14
Types of Financial Aid.....	14
Federal Financial Aid Refund Policy ...	14
Veterans' Information .....	14
Contact Information-Financial Aid .....	14

## Academic and Administrative Policies

Catalog .....	16
Student Handbook.....	16
Enrollment .....	16
Registration .....	16
Course Load .....	16
Student Status .....	16
Auditing .....	16
Drop and Add .....	17
Repeating a Course.....	17
Course Warning.....	17
Leave of Absence.....	17
Withdrawal.....	18
Administrative Withdrawal.....	18
Dismissal.....	18
Readmission .....	18
Attendance .....	19
Religious or Cultural Observance .....	19
Classification of Students .....	19
Academic Progress.....	19
Academic Standing .....	19
Grading System .....	20
Pass/No Pass.....	20

President's & Dean's List.....	20
Clinical Grading Policy .....	21
Incomplete Grade .....	21
Finals Week .....	21
Graduation Requirements .....	21
Graduation Honors .....	22
Formal Complaints.....	22
Grievance Policy .....	22
Privacy Act .....	22
Record Retention.....	22
Transcripts & Records Requests .....	22
Holds .....	23
Release of Reference Information .....	23
Name Changes .....	23
Posthumous Degrees.....	23

## Campus Policies

Student Rights and Responsibilities ...	26
Code of Conduct.....	26
Academic Integrity.....	26
Campus Security/Crime Prevention ...	26
Harassment .....	26
Sexual Assault .....	26
Drug and Alcohol Policy .....	27
Tattoo Policy.....	27

## Services and Activities

Student Success Center .....	30
Student Health Services .....	30
Advisement & Counseling Services .....	30
Housing .....	30
Students with Disabilities.....	30
Library .....	31
Simulation & Skills Laboratories .....	31
Science Laboratory .....	31
Student Organizations.....	31
Student Government .....	31

# TABLE OF CONTENTS

## Curriculum and Courses

General Education Plan .....	34-35
Philosophy-General Education .....	34
Course Descriptions-	
General Education .....	36-45
Minors .....	46
Completion of a Minor Following	
Graduation .....	46
Computer Skills .....	47
Computer Access .....	47
Math Competency .....	47
Basic Nursing Assistant .....	47
Community Service-	
Health Professions .....	47
CPR .....	47
Philosophy-School of Nursing .....	48
Curriculum Objectives-Nursing .....	48
Curriculum Plan-Nursing .....	49
Course Descriptions-Nursing .....	50-53
Completion Program-RN-BSN .....	54
Curriculum Plan-RN-BSN .....	54
Application Procedure-RN-BSN .....	54
Philosophy-	
School of Health Professions .....	55
Essential Abilities of Sonographers ....	56
Curriculum Objectives-	
Adult Cardiac Sonography .....	57
Curriculum Objectives-	
Vascular Sonography .....	57
Curriculum Objectives-	
Diagnostic Medical Sonography .....	57
Advanced Placement in	
Health Professions .....	58
B.S. Degree Completion Option	
in Health Professions .....	58
Adult Cardiac Sonography A.S. ....	59
Curriculum Plan-	
Adult Cardiac Sonography A.S. ....	60
Adult Cardiac Sonography B.S. ....	61
Curriculum Plan-	
Adult Cardiac Sonography B.S. ....	62
Vascular Sonography A.S. ....	63
Curriculum Plan-	
Vascular Sonography A.S. ....	64
Vascular Sonography B.S. ....	65
Curriculum Plan-	
Vascular Sonography B.S. ....	66
Diagnostic Medical Sonography A.S. .	67
Curriculum Plan-	
Diagnostic Medical Sonography A.S. .	68
Diagnostic Medical Sonography B.S. .	69
Curriculum Plan-	
Diagnostic Medical Sonography B.S. .	71
Course Descriptions-	
Health Professions .....	72-77

## Graduate Studies

Program Description-	
Graduate Certificate .....	80
Tuition & Fees-	
Graduate Certificate .....	80

Admission Requirements-	
Graduate Certificate .....	80
Course Descriptions-	
Graduate Certificate .....	80
Program Description-	
Nurse Anesthesia .....	81
Program Philosophy-	
Nurse Anesthesia .....	81
Educational Goals-	
Nurse Anesthesia .....	82
Admissions-Nurse Anesthesia .....	83
Application Procedure-	
Nurse Anesthesia .....	83
International Students-	
Nurse Anesthesia .....	84
Competencies-Nurse Anesthesia ...	84-85
Curriculum Design-Nurse Anesthesia	86
Course Descriptions-	
Nurse Anesthesia .....	87-90
Clinical Practicum-	
Nurse Anesthesia .....	91-92
Tuition and Fees-Nurse Anesthesia ...	93
Additional Costs-Nurse Anesthesia ...	93
Housing-Nurse Anesthesia .....	93
Health Services-Nurse Anesthesia ....	93
Employment-Nurse Anesthesia .....	93
Discretionary Leave Time-	
Nurse Anesthesia .....	93
Time Commitment-Nurse Anesthesia .	93
Call-Nurse Anesthesia .....	94
Liability-Nurse Anesthesia .....	94
Financial Aid-Nurse Anesthesia .....	94
Accreditation-Nurse Anesthesia .....	94
Certification-Nurse Anesthesia .....	94
Consumer Information-	
Nurse Anesthesia .....	94
CPR-Nurse Anesthesia .....	94
Contact Information-	
Nurse Anesthesia .....	94

## College Personnel

Board of Trustees .....	96
Administration .....	97
Administration Office .....	97
Admissions Office .....	97
Educational Technology .....	98
Library .....	98
Records and Registration .....	98
Student Support Services .....	98
Faculty-Health Professions .....	99
Faculty-General Education .....	99
Faculty-Nursing .....	100-101
Faculty-Nurse Anesthesia .....	101
Academic Calendar .....	104

<b>Index</b> .....	106-107
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# GENERAL INFORMATION



# GENERAL INFORMATION

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**Our Mission**

The Mission of BryanLGH College of Health Sciences is to provide education in the health professions emphasizing clinical and academic excellence through collaboration with BryanLGH Health System and the healthcare community.

**Our Vision**

The Vision of BryanLGH College of Health Sciences is to provide a College of Health Sciences recognized as a leader in health professions education by qualified applicants, graduates and employers.

**Our Goals**

The Goals of BryanLGH College of Health Sciences are to prepare graduates who:

- Are qualified to practice in entry level, mid-level, and advanced practice roles in diverse healthcare environments;
- Are critically aware of their individuality;
- Maintain a clear understanding of professional scope of practice;
- Value life-long learning as a means of personal and professional growth;
- Participate as responsible citizens within the community; and
- Are capable of meeting the healthcare needs of an ever-changing society.

**Our Purpose**

The Purpose of BryanLGH College of Health Sciences is to educate healthcare professionals for service to the global community.

**Our Values**

<b>Essential Values</b>	<b>Description</b>	<b>Attitudes and Personal Qualities</b>
Altruism	Concern for the welfare of others	Caring, Commitment, Compassion, Generosity, Perseverance
Equality	Having the same rights, privileges or status	Acceptance, Assertiveness, Fairness, Self-esteem, Tolerance
Esthetics	Qualities of objects, events and persons that provide satisfaction	Appreciation, Creativity, Imagination, Sensitivity
Freedom	Capacity to exercise choice	Confidence, Hope, Independence, Openness, Self-direction, Self-discipline
Human Dignity	Inherent worth and uniqueness of an individual	Consideration, Empathy, Humaneness, Kindness, Respectfulness, Trust, Non-judgmental
Justice	Upholding moral and legal principles	Courage, Morality, Objectivity, Leadership
Truth	Faithfulness to fact or reality	Accountability, Authenticity, Honesty, Inquisitiveness, Rationality, Reflectiveness

# GENERAL INFORMATION

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## **Statement of Diversity**

BryanLGH College of Health Sciences honors cultural differences and promotes equality of all individuals through creation of a campus climate of inclusion, tolerance, and respect. The College provides students with curricular and co-curricular opportunities to help them to grow personally and professionally and to prepare them to be culturally competent citizens in a diverse and ever-changing society. The College emphasizes the significance of providing faculty and staff with educational and collegial opportunities to maintain an environment which recognizes the importance of cultural competence.

## **Philosophy of Diversity**

BryanLGH College of Health Sciences recognizes through its Mission Statements that:

- The individual is a unique and multidimensional being with inherent worth and dignity who deserves to be treated with consideration, empathy, humaneness, kindness, respect, trust and a non-judgmental attitude.
- All individuals deserve the same rights, privileges or status as others including acceptance, assertiveness, fairness, self-esteem and tolerance.
- The individual has the freedom to exercise choice.
- The education process must enable the graduate to participate as a contributing member of a culturally diverse society.
- Faculty are responsible as role models, mentors and teachers for providing a caring environment in which students are free to explore and develop.

BryanLGH College of Health Sciences recognizes that diversity presents itself in many different ways. It is not just the ethnic and sociocultural differences among individuals, but also the physiological, psychological, developmental and spiritual differences. The College strives to provide equality to all individuals through nondiscriminatory policies on admission/ enrollment, religious or cultural observances, services for students with disabilities, financial aid, student rights and responsibilities, student code and harassment.

BryanLGH College of Health Sciences recognizes that while the community in which it exists is rapidly becoming more culturally diverse, this growth in cultural diversity is not presently realized proportionately within the College faculty or student body. The College recognizes the importance of striving to recruit a more culturally diverse student body and providing the necessary resources to increase the likelihood of success in the College.

BryanLGH College of Health Sciences recognizes the rich learning opportunities within the community for interaction with individuals and groups of diverse backgrounds. Both curricular and co-curricular opportunities must be systematically provided to students to help them to grow personally and professionally and to prepare them to be culturally sensitive citizens in a diverse and ever-changing society.

## **Non-Discrimination Policy**

The College does not discriminate on the basis of race, religion, sex, age, creed, color, national or ethnic origin, marital status, veteran status, disability or sexual orientation. The College is committed to a policy that all qualified persons have access to its programs and facilities.

The College is an equal opportunity employer. It does not discriminate in the hiring practices of faculty and staff. The College complies with existing federal and state regulations concerning equal employment opportunities and affirmative action.

Any persons having concerns with rights under Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, or Title IX of the Education Amendments of 1972 should contact the President of the College.

## **Philosophy of Assessment of Student Learning**

BryanLGH College of Health Sciences is committed to creating an academic culture dedicated to improving the quality of higher education. Assessment of student learning is a key component of this commitment.

The purpose of assessment is to assure the College, its constituents, and the public that students are meeting desired learning outcomes. This ongoing process uses multiple, broad-based, valid, and reliable measurements to monitor and improve teaching and learning. Administration, faculty, and staff use assessment results to recommend and implement changes in programs, curriculum, resources, and services that will enhance student learning.

## **History**

In 1922 William Jennings Bryan gave his home, "Fairview," and surrounding land to the Nebraska Conference of the Methodist Church for the purpose of establishing a new hospital in Lincoln. With his gift and others, a dream became a reality when, on June 6, 1926, Bryan Memorial Hospital opened a 60-bed hospital.

The Bryan Memorial Hospital School of Nursing also opened in 1926 and enrolled 37 students during that year. Fairview was used as the student dormitory.

The BryanLGH College of Health Sciences is an outgrowth of the Bryan Memorial Hospital School of Nursing. The College enjoys a close clinical partnership with BryanLGH Medical Center.

BryanLGH Medical Center has continued its commitment to providing quality healthcare. Today, the medical center serves as a 620-bed regional healthcare center.

The comprehensive care and treatment facilities available at BryanLGH make it possible for our skilled staff members to provide the best and most modern healthcare. A complete range of inpatient and outpatient diagnostic, therapeutic and ancillary services is available.

# GENERAL INFORMATION

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The ultimate objectives of the medical center are to provide quality service to patients and their families, and to offer sound programs of education for those seeking careers in medicine, nursing and health professions.

The College has maintained the goal of excellence that was emphasized by its founders and continues to prepare healthcare professionals with professional skills, awareness, interest and concern for healthcare.

## **Campus Facilities**

The BryanLGH College of Health Sciences is located on the BryanLGH Medical Center East site. The campus educational setting includes classrooms, conference rooms, simulation laboratories, skills laboratories, a computer laboratory and library facilities, as well as offices for faculty and staff.

Skills laboratories are located within the educational complex and are equipped with a variety of specialized equipment and mannequins for practicing psychomotor skills and patient care. The skills laboratories simulate a full range and complexity of care.

The College also utilizes space at BryanLGH Medical Center's West campus, located three miles west of the College. This location is home to the College's Natural Science Laboratory, faculty offices, classrooms for Natural Science instruction, and small group work. The Natural Science Laboratory is the permanent home to the plastinated human body specimens. These plastinated cadavers offer an important advancement in educating graduate and undergraduate students.

State-of-the-art, high-fidelity adult, birthing, and pediatric patient simulators are also located at the West campus within The Center for Excellence in Clinical Simulation. Patient simulators respond physiologically to student interventions, such as medication administration, application of oxygen, and administration of anesthetic gases. They have realistic features, such as blinking eyes with pupils that react to light, a chest that rises and falls with respirations, palpable pulses, various heart and lung sounds, and the ability to cry, drool, and bleed. Simulated clinical experiences offer the opportunity to learn in a hands-on, risk-free environment. The Center is housed on an 11-bed patient care unit that exactly replicates the hospital environment with two rooms dedicated to debriefing. There are currently eight high-fidelity patient simulators, as well as audio-visual capabilities.

Staff, faculty, and students have access to free shuttle service that runs every thirty minutes between BryanLGH East and West.

BryanLGH College of Health Sciences Library organizes, maintains and provides access to an extensive collection of print and electronic journals, databases and multimedia material. The collection contains approximately 80 print professional journals, access to 34,000 electronic journals, 5,000 monographs, 350 multimedia materials and medical and multidisciplinary bibliographic databases. These resources are utilized for coursework, patient care,

clinical research and professional development. Library services include document delivery, research assistance program (RAP), curriculum integrated information competency skills, Library specific course guides, and educational opportunities in the form of hands-on workshops and course lectures. The Library web page organizes all the resources and services and provides remote access for off-campus users. The Library aims to provide authoritative current, high quality information that supports the curriculum and contributes to excellent patient care.

A 26-station computer laboratory is housed within the library. Computers are equipped with software needed to complete course requirements, as well as a variety of review programs. Students can access their College email accounts, SONISWEB, and ANGEL® accounts. In addition, three computers are located in the student lounge for use outside Library hours.

Each classroom contains state-of-the-art technology, including a computer, LCD projector, document camera and projectable white board/ wall. A mobile cart with 30 laptops is available for classroom instruction and testing. Technology to enhance learning at a distance is available in classrooms.

## **Degrees Offered**

BryanLGH College of Health Sciences offers a Bachelor of Science in Nursing degree and a Bachelor of Science degree with majors in Diagnostic Medical Sonography and Cardiovascular Technology. Two areas of specialization in Cardiovascular Technology are offered as a dual major: Adult Cardiac Sonography and Vascular Sonography. A Bachelor of Science Degree Completion in Health Professions is available to individuals who have earned an Associate degree in a healthcare field. The College also offers a Master of Science degree in Nurse Anesthesia.

## **Certificates Offered**

*Basic Nursing Assistant*

### *Graduate Certificate in Simulation Education*

The Simulation Education program enables learners to grow in their understanding of active learning theory and teaching strategies as well as best practices in facilitating learning in the simulation environment. The program culminates with a unique practicum experience that will result in a contribution to the field of patient simulation education.

# GENERAL INFORMATION

## Accreditation/Licensure

The College is authorized by the Nebraska Coordinating Commission for Postsecondary Education and is approved by the Nebraska State Board of Nursing, Credentialing Division, Department of Regulation and Licensure of the Nebraska Health and Human Services System. BryanLGH College of Health Sciences is accredited by the Higher Learning Commission and is a member of the North Central Association.



The Adult Cardiac Sonography and Vascular Sonography programs and the Diagnostic Medical Sonography program offered at BryanLGH College of Health Sciences are accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 1361 Park Street, Clearwater, FL 33756, phone (727) 210-2350, [www.caahep.org](http://www.caahep.org) upon the recommendation of the Joint Review Committee on Education in Cardiovascular Technology and the Joint Review Committee on Education in Diagnostic Medical Sonography respectively.

BryanLGH College of Health Sciences School of Nursing Baccalaureate Program is accredited by the National League for Nursing Accrediting Commission, National League for Nursing Accrediting Commission, Inc., 3343 Peachtree Road, NE, Suite 500, Atlanta, Georgia, 30326, phone: 404-975-5000, Fax: 404-975-5020.

The Nurse Anesthesia School is accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs (COA). American Association of Nurse Anesthetists, 222 S. Prospect Avenue, Park Ridge, IL 60068  
Phone: (847) 692-7050; FAX: (847) 692-6968.

The College does not grant licensure or ensure an individual's eligibility to obtain licensure after graduation. It is each student's responsibility to know and understand the requirements for licensure and/or registry.

## Bachelor of Science in Nursing Program

Graduates of the Bachelor of Science in Nursing program are eligible to file an application to take the National Council Licensing Examination. Licensing entitles the individual to practice professional nursing as a registered nurse in the state in which the examination was written, and to apply for a license in other states.

Based on the Nebraska Uniform Licensing Law 71-147, the Department of Health-Bureau of Examining Boards may deny licensure to applicants who have been convicted of a misdemeanor or felony; who may be addicted to alcohol or a controlled substance or narcotic drug; or who engage in grossly immoral or dishonorable conduct.

Any student who has a criminal offense other than a minor traffic violation prior to or during enrollment at BryanLGH College of Health Sciences is required to report it to and conference with the Dean of Students.

## Health Professions Programs

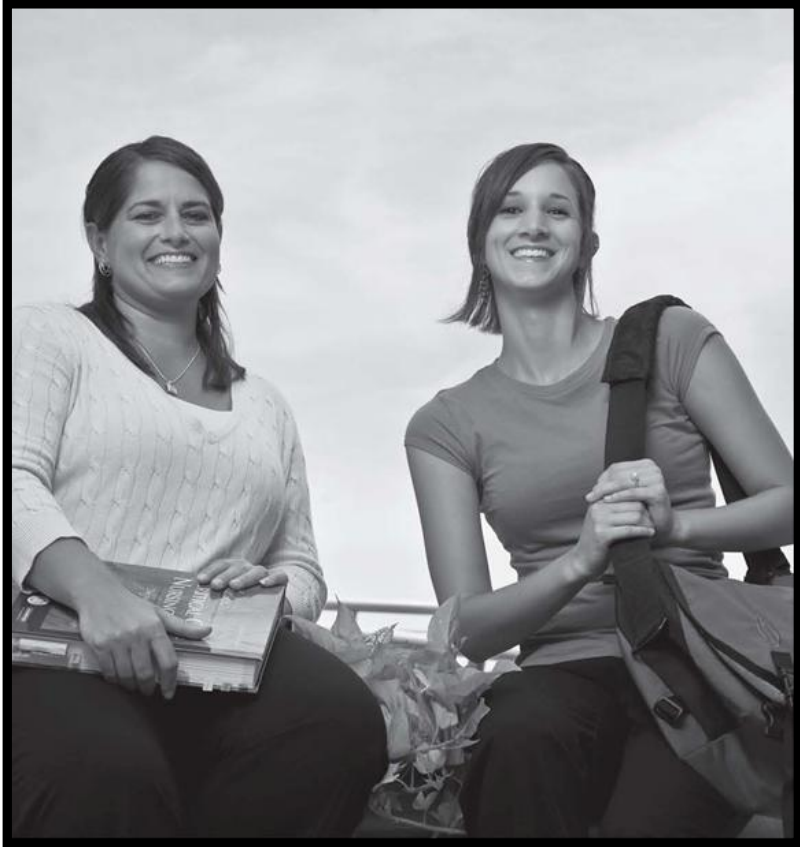
Graduates of the Adult Cardiac Sonography, Vascular Sonography, and Diagnostic Medical Sonography programs meet published requirements by the Association of Registered Diagnostic Medical Sonographers (ARDMS) to apply for the registry exam. After successfully writing an ultrasound physics exam and examination(s) in the specialty, the graduate is credentialed as a Registered Diagnostic Cardiac Sonographer (RDCS), Registered Vascular Technologist (RVT), or Registered Diagnostic Medical Sonographer (RDMS), respectively. ARDMS policy stipulates that candidates must complete both the physics and the specialty area examination components within five years of each other.

ARDMS may deny, revoke or otherwise take action with regard to the application or certification of an applicant or registrant in the case of the conviction or plea of guilty, or plea of nolo contendere to a crime (felony and/or misdemeanor) which is directly related to public health or the provision of diagnostic medical sonography or vascular technology services.

## BryanLGH College of Health Sciences' Alumni Association

The Bryan Memorial Hospital School of Nursing and the Lincoln General Hospital School of Nursing Alumni Associations have had a rich heritage. The BryanLGH College of Health Sciences Alumni Association continues to advance high standards of ethical and professional conduct, and promote professional and educational advancement.





# ADMISSION

# ADMISSION

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## Admission Policies

Admission to BryanLGH College of Health Sciences is based on demonstrated evidence of academic ability and an interest in and aptitude for health sciences. Recognizing human equality and the right of all persons to equal opportunity, every applicant is considered regardless of race, religion, sex, age, creed, color, national or ethnic origin, marital status, veteran status, disability or sexual orientation.

The College is committed to a policy that all qualified persons have access to its programs and facilities. Any persons having concerns with rights under Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, or Title IX of the Education Amendments of 1972 should contact the President of the College.

Each individual who applies for an undergraduate degree program is evaluated in terms of the following criteria:

- Successful completion of College Application.
- Graduation from an accredited high school or the equivalent.
- Performance on college entrance examinations, ACT or SAT accepted, a minimum ACT score of 20 or the equivalent on the SAT. College entrance examinations are waived for applicants who have earned their high school diploma three years or more prior to applying to the College.
- High school transcripts, minimum high school GPA of 2.75 on a 4.0 scale.
- College transcripts, if applicable, minimum college GPA of 2.0 on a 4.0 scale.
- Three references.
- Personal interview for qualified applicants.
- Applicants for whom English is a learned language must score 550 paper based/213 computer based or better on the TOEFL English proficiency examination. (School code: 6058)

Individual consideration will be given to all applicants. Additional testing or assessment may be required for those students needing additional support to be successful in their program.

Admission criteria for Certificate Programs and the School of Nurse Anesthesia are located in the corresponding sections of this Catalog.

## Application Procedure

Students must apply and be accepted at BryanLGH College of Health Sciences. The Registration and Advising Supervisor is available to assist in developing an academic plan for registration and sequencing of General Education courses.

Candidates may apply any time during the year. Applications to the School of Nursing are accepted through February 1 for fall start dates and June 1 for spring start dates.

Applications to the School of Health Professions are accepted through February 15 for fall start dates.

Completion Programs have no set application deadlines but materials must be submitted one month prior to the start of the term in which the student

wishes to enroll.

A completed application consists of:

1. application form and \$40 application fee\*,
2. official high school transcripts,
3. official college transcripts, if applicable,
4. three references,
5. SAT or ACT test results, if applicable, and
6. personal interview, for qualified applicants.

The College will offer an application fee waiver upon request to qualified students who meet the financial hardship guidelines. Students requesting a fee waiver should complete the Request for Application Fee Waiver available from the Admissions Office. The form must be signed by the student, student's parent/guardian and verified by the secondary school counselor or similar.

## Students-at-Large

BryanLGH College of Health Sciences offers a non-degree admission category for individuals who:

1. are not currently enrolled in a degree seeking program at BryanLGH College of Health Sciences.
2. are enrolled at another college and are in good standing.
3. wish to take a course for their own personal or professional development.

Such individuals are considered students-at-large and may enroll in selected courses on a space available basis. Priority will be given to students enrolled in a degree program at the College. All prerequisites must be met and application to some courses may require permission from the Dean of the School where the course resides. Students-at-large are not eligible for scholarships or financial aid.

An individual may register as a student-at-large by completing the Course Registration Form during the registration period for each academic term. This form can be obtained from Records and Registration. The student-at-large does not need to apply to the College, and transcripts from previous institutions are not required unless the course has prerequisites. Tuition is the same as for degree-seeking students and all course fees apply.

## International/Permanent Resident Students

BryanLGH College of Health Sciences welcomes applications from students who have been educated in another country and meet the admissions requirements established by the college. An international student is a student who is not a U.S. citizen or permanent resident of the U.S. International students have additional requirements to fulfill to be accepted to BryanLGH College of Health Sciences. International students must follow all application and payment procedures in order to enroll at the College. International applicants should make application several months in advance of the desired application deadline to allow sufficient time for review of the application prior to the application deadline and to ensure that all pertinent material is received by the application deadline. Contact the Admissions Office for forms and information required of international students.

# ADMISSION

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## Transfer Students

Students previously enrolled in nursing or health professions programs at other colleges are considered for transfer based on their college work to date. Students must meet Admissions Standards for acceptance prior to transcript evaluations commencing. Transfer is based on prior scholastic and clinical performance and the similarity of the programs in terms of sequence and content. A minimum of 32 nursing/health professions credit hours must be completed at BryanLGH College of Health Sciences before a transfer student may graduate.

Nursing or health professions curriculum courses in a major for which transfer credit is granted will be recorded with a "CW" and will not be included in calculating a student's grade point average.

Credit transferred for nursing courses must be from a program that is approved by a State Board of Nursing and has specialized nursing accreditation through the National League for Nursing Accrediting Commission (NLNAC) or the Commission on Collegiate Nursing Education (CCNE). Credit transferred for health professions courses must be from a program that is accredited by a recognized specialty accrediting body.

To be eligible for transfer, the student must:

1. complete the application requirements,
2. submit a transcript and course descriptions from the previous school; and
3. successfully complete a transition course which is designed to orient students to the program of study and the clinical facilities.

## General Education Transfer of Credit

The following policy delineates minimum standards for the transfer of general education credit hours for BryanLGH College of Health Sciences. Individual degree-granting programs may develop their own, more stringent, standards for acceptance of general studies or program-specific credit hours from accredited post secondary institutions and other sources. Degree completion programs, due to the nature of their purpose and the unique experiences of their students, may elect to waive requirements 4 to 6 as applicable and pertinent to the individual student's course of study. Students must be aware of the requirements of their individual programs.

Students may transfer up to 64 general studies credit hours from accredited post-secondary institutions. Courses will only be accepted for transfer if they meet the following criteria:

1. The quality and content of courses must be compatible with the educational philosophy of BryanLGH College of Health Sciences and similar to courses in the College's general education curriculum.
2. Students requesting credit for courses taken at institutions of higher learning located outside the United States must have those courses evaluated. Acceptable evaluation agencies include Educational Credential Evaluators (Catalog Match Evaluation), World Education Services and the American

Association of Collegiate Registrars and Admissions Officers.

3. Only courses for which the student has earned at least a C (or the equivalent of a C) will be considered for transfer credit.
4. Courses accepted for transfer must have been taken no more than 5 years prior to the date on which the transfer of credit was requested for natural sciences and mathematics courses.
5. At least 30 of the last 45 credit hours needed for a degree (including program-specific and General Education hours) must be taken at BryanLGH College of Health Sciences.
6. A maximum of 32 of the 64 credit hours accepted for transfer may be from a combination of hours earned through:
  - Advanced Placement (AP): Students who have taken Advanced Placement courses while in high school and achieved scores on AP examinations equivalent to at least a grade of C may request transfer credit for applicable courses.
  - Credit by Examination: Students with pertinent knowledge or experience may demonstrate proficiency by taking examinations such as those offered by the College Level Examination Program (CLEP) and achieving a score that is equivalent to a grade of at least a C.
  - Credit by Waiver: Students with pertinent knowledge or experience may demonstrate proficiency by presenting relevant documents for review.
  - Correspondence and Electronic Format Courses: Classes taken through distance education methodologies such as correspondence, extension or on-line courses.
  - Dual Credit Courses: Students who have earned college as well as high school credit for courses given by their high school may request transfer of credit for that course. No more than 15 of the 32 hours may be composed of transfer hours from dual credit courses.

Exceptions to the above may be accepted. Requests for exceptions will be reviewed on a case by case basis. Beginning fall 2011 general education courses taken outside of BryanLGH College of Health Sciences will not be calculated into the student's grade point average.

# ADMISSION

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## **Credit by Waiver**

To apply for credit by waiver the applicant must be accepted for admission to a College degree program. Students requesting credit by waiver must submit an Application for Credit by Waiver or Examination form and supportive documents such as competency reports, proficiency certificates or training records. The application must be submitted for evaluation to the program requiring the course. Upon successful completion of the evaluation, both the application and the evaluation will be submitted to the Registrar for recording credit on the student's transcript. Courses in which credit is granted by waiver will be recorded on the transcript with a "CW" and will not be included in calculating a student's grade point average. Credit granted by waiver is subject to evaluation by other institutions and may not be accepted for transfer credit.

## **Credit by Examination**

Some nursing or health professions curriculum courses in a major may be completed by examination. To apply for credit by examination, the student must submit an Application for Credit by Waiver or Examination form to the program requiring the course. The type of test or evaluation method and the number of credits awarded will be determined by the program to which the application for credit has been made. If the application is accepted and the student successfully completes the examination, the Registrar will record "CX" (CREDIT by Examination) on the transcript. No grade points will be awarded or included in calculating the grade point average.

Applicants for credit by examination or any combination of waiver and examination must pay for the following:

- The cost of the examination and/or examination process;
- A percentage of the current per credit hour tuition rate for each credit hour attempted by examination or waiver.

Students will be allowed to waive by examination or validation of proficiency no more than 12 credit hours of General Education courses.

## **Advanced Placement**

Opportunities for advanced placement may exist in particular majors. (See the Curriculum and Courses section of the catalog.)

## **Contact Information**

Admissions Office  
BryanLGH College of Health Sciences  
5035 Everett Street  
Lincoln, NE 68506-1398  
Phone: 402-481-8697 or  
1-800-742-7844, ext. 18697  
Website: [www.bryanlghcollege.edu](http://www.bryanlghcollege.edu)  
Office hours: 8 a.m. – 4:30 p.m., Monday-Friday



# FINANCIAL INFORMATION

# FINANCIAL INFORMATION

## Tuition and Fees

### 2011-2012 Costs

Undergraduate tuition is \$426 per credit hour with a \$23 per credit hour general fee. Costs do not include books and other living expenses, graduation or program specific fees. A \$40 fee must accompany the completed application. This is a processing fee and is not refundable. Accepted applicants must make a \$150 enrollment fee to hold a place in a class. It is not refundable. Transition course fees must be paid before entering the program of study. The fee is based on the amount of instructional time required and includes instructional materials.

Graduate Certificate tuition is \$518 per credit hour. A \$75 fee must accompany the completed application. This is a processing fee and is not refundable. Tuition and fees for the School of Nurse Anesthesia are further outlined in that section of the Catalog.

## Tuition Collection and Payment Policy

### Spring and Fall Semesters

Tuition and fees are billed the third week after the first day of a new semester and are due on Friday of the 5th week of classes.

### Summer Semester

Tuition and fees are billed two weeks prior to the beginning of the summer semester for all sessions within the summer semester. Tuition and fees are due the Friday of the first week of the summer semester.

Questions regarding tuition billing and collection may be directed to Student Accounts at (402) 481-8357.

## Tuition Refund Schedule

Week 1	100% refund
Week 2	80% refund
Week 3	60% refund
Week 4	40% refund
Week 5	20% refund

Refunds for summer sessions or sessions less than a full term will be prorated. The following fees are not refundable: enrollment fee, course materials and laboratory fees, and books purchased through the bookstore.

## Applying for Financial Aid

Students applying for financial aid must file a Free Application for Federal Student Aid (FAFSA). This application may be completed online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). The BryanLGH College of Health Sciences federal school code is 006399.

Students should apply for a Personal Identification Number (PIN) prior to completing the FAFSA. The PIN serves as the electronic signature when completing your application online. Students who are dependents also should encourage a parent to apply for a PIN. You can apply for a PIN at [www.pin.ed.gov](http://www.pin.ed.gov)

Students who fulfill the necessary qualification may be considered for loan and grant assistance. A student must be in good academic standing and be enrolled for a minimum of six credit hours per semester to be eligible to receive aid.

## Types of Financial Aid

BryanLGH College of Health Sciences offers a variety of financial aid opportunities to students. Types of aid available include: subsidized Federal Direct loans, unsubsidized Federal Direct loans, Federal Direct PLUS loans, Federal Direct Grad PLUS, Pell Grants, State Grants, work study and college based grants, scholarships and private loans.

## Scholarships

Students who wish to receive BryanLGH Foundation scholarships should complete their FAFSA and the online scholarship application form at [www.bryanlghcollege.edu/go/admissions/financial-aid](http://www.bryanlghcollege.edu/go/admissions/financial-aid). The online scholarship application is available annually March 1-31.

## Federal Financial Aid Refund Policy

Refunds for Federal aid recipients are issued according to Federal guidelines. A student earns Federal aid for the period of time they are enrolled. If a student withdraws before the end of the period, they may have unearned aid that must be returned to the Federal Financial aid program.

## Veterans' Information

Many of the programs at the College have been approved by the State Approving Agency for the enrollment of those eligible to receive GI Bill education benefits. Prospective students may visit the VA website at [www.gibill.va.gov](http://www.gibill.va.gov) or inquire at a Veterans Administration Office for information on benefits.

## Contact Information

Financial Aid Office, BryanLGH College of Health Sciences, 5035 Everett Lincoln, NE 68506-1398  
Phone: (402) 481-8984 or 800-742-7844, ext. 18984  
E-mail: [financial-aid@bryanlghcollege.edu](mailto:financial-aid@bryanlghcollege.edu)

# ACADEMIC & ADMINISTRATIVE POLICIES



# ACADEMIC & ADMINISTRATIVE POLICIES

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The President and the Faculty have the responsibility and authority to establish and maintain standards of ethical, personal and professional conduct for students in the College. It is assumed that each student who enrolls at BryanLGH College of Health Sciences is in agreement with the philosophy, goals and values and will cooperate in furthering these purposes by adhering to regulations.

## **Catalog**

Students are expected to utilize the College Catalog as a reference while a student at BryanLGH College of Health Sciences. It contains College requirements and policies.

Application for admission implies concurrence with all tuition and fees, and with all policies as stated in this catalog.

Students are responsible for following the requirements and regulations of the catalog.

BryanLGH College of Health Sciences reserves the right to make changes without prior notice concerning rules, policies, tuition and fees, curriculum, requirement for degrees or other school related services. Updates to the published catalog are reflected in the catalog located on the College website, [www.bryanlghcollege.edu](http://www.bryanlghcollege.edu).

## **Student Handbook**

The Student Handbook is issued to all students entering the program. Students are expected to adhere to all policies and procedures outlined in the handbook. All students receive copies of revisions as they occur via email. It is the student's responsibility to keep the handbook updated with these revisions. A copy of the Student Handbook can be accessed on the College website at [www.bryanlghcollege.edu](http://www.bryanlghcollege.edu)

## **Enrollment**

Prior to enrollment, based on program of study, students may be required to submit health records validating health status and validation of required immunizations. A criminal background check and/or drug screening may be required prior to and/or during enrollment in the College. Information obtained from these reports may impact eligibility to enter and/or remain in the program.

The College enrolls qualified students into clinical programs who are able to provide safe patient care and perform the following technical competencies:

1. utilize perceptual skills when providing care and services for clients in all types of settings,
2. safely use essential equipment when providing client care and services in all required settings, and
3. move about independently when providing care and services for clients.

(For more specific criteria for enrollment into a health professions program, see Essential Abilities of Sonographers on page 44.)

BryanLGH College of Health Sciences reserves the right to cancel any course offering for which enrollments are insufficient. Placement in the program

is determined by the student's academic preparation and the number of students enrolled in the program. The number of students admitted to the College each semester is limited to ensure a student-to-faculty ratio that enhances learning and appropriate use of clinical facilities.

## **Registration**

Registration occurs in March for the summer and fall terms. Registration for the spring term occurs in October. Students will receive registration materials regarding course offerings prior to registration. See the academic calendar for registration dates.

## **Credit Hour Defined**

A semester credit will consist of fifteen clock hours of face to face instruction during a semester, plus a reasonable period of time outside of instruction in which the student is required to devote to preparation for a learning experience, such as preparation for instruction, study of course material, or completion of educational projects. A clock hour of instruction is 50 minutes in length. In the use of distance technology the planned learning experiences are equivalent to the learning and preparation described above, as determined by duly qualified faculty responsible for evaluating learning outcomes for the award of unit credits.

## **Course Load**

The normal course load is 12-16 credit hours per 16-week semester. Students are encouraged to limit the total number of major and general education credit hours to no more than 18 credit hours per semester.

## **Student Status**

### Full-time

Students who are enrolled in at least 12 credit hours per 16-week semester or at least nine credit hours over the 13-week summer term are considered full-time.

### Part-time

Students who are enrolled in less than 12 credit hours per 16-week semester or less than nine credit hours over the 13-week summer are considered part-time.

## **Auditing a Course**

Auditing a course provides the privilege of attending class as a non-participating listener with a particular interest in the subject matter. Involvement in class discussion and/or activities is at the discretion of the instructor. Regular attendance is expected, but no course credit is earned.

An individual may register to audit a course with permission of the instructor and the Dean of the School. Permission is considered on a space available basis with priority given to those students enrolled for credit. The clinical or lab portion of a course may not be audited. Application to the College is not required.

Tuition for auditing a course is \$100 per credit hour. Refunds are based on the refund policy for the College. Additional course fees may apply.

Course Registration forms can be obtained from Records and Registration. Registration occurs during the registration period for each academic year. The

# ACADEMIC & ADMINISTRATIVE POLICIES

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official transcript will reflect "AU" for those individuals who audit at least 75% of the course. No grade is assigned and no course credit is earned.

An individual must declare audit status at the time of registration and may change to credit status only during the first week of the course and only with permission of the Dean of the School. If audit status is changed to credit status, regular tuition and fees apply.

## **Drop and Add**

### Adding a course

A course may be added through the end of the first week of a semester with permission of the instructor. The student must complete a "Request to Drop/Add a Course Form" and submit it to The Office of the Registrar. After the first week of the semester adding a course requires a petition to the appropriate Dean. Add deadlines for summer terms or sessions less than a full semester follow a prorated schedule. Prorated schedules are available from Records and Registration.

### Dropping a Course

A course may be dropped through the end of the first week of the semester. The student must complete a "Request to Drop/Add a Course" and submit it to Records and Registration. A course dropped by the end of the first week of the semester is not recorded on the transcript. A student who wishes to drop a course after the first week must follow the "Withdrawal from a Course" policy. Drop deadlines for summer sessions or sessions less than a full semester follow a prorated schedule available from Records and Registration.

## **Repeating a Course**

Students must repeat any required course in which a grade below "C" in general education courses or below "C+" in a course in a major is received.

The record of both the original and the repeated course will be retained on the student's transcript. For purposes of determining the student's cumulative grade point average, only the grade points and credits earned in the last retaking of the course will be used. Enrollment in a repeated course will be on a space available basis.

### Course in a Major

Students may only repeat a course in the major one time. Students may repeat no more than two courses in the major in which a grade of less than C+ is earned throughout the curriculum. A student cannot repeat a course in a major for which a final grade of "C+" or better has been earned.

### General Education Courses

Students who choose to repeat a general education course that they have already completed successfully at BryanLGH College of Health Sciences and/or that has transferred successfully from an accredited institution must be informed that they will not be able to include such a course toward eligibility for federal financial aid.

Students may audit a general education course that they have already completed successfully at BryanLGH

College of Health Sciences and/or that has transferred successfully from an accredited institution. However, students must be informed that an audited course will not be included toward eligibility for federal financial aid.

## **Course Warning Policy**

### Courses in a Major

A student functioning below a 75% average in a theory course or theory component of a course in the declared major at midterm will be informed in writing of his/her status by the Registrar.

A student demonstrating unacceptable behavior (unprofessional, unsatisfactory) will be informed in writing of his/her status and will be placed on course warning by course instructors at any time in the course. The warning may be removed if behavior improves sufficiently to indicate satisfactory conduct and consistency in meeting the expectations of the course.

A student functioning at an unsatisfactory level in the clinical portion of a course will be informed in writing of his/her status and will be placed on course warning at that time by the course faculty. The warning may be removed if course performance improves sufficiently to indicate satisfactory performance and consistency in meeting the objectives.

### General Education Courses

A student functioning below a 70% in a required general education course offered at BryanLGH College of Health Sciences at midterm will be informed in writing of his/her status by the Registrar.

A student demonstrating unacceptable behavior (unprofessional, unsatisfactory) will be informed in writing of his/her status and will be placed on course warning by course instructors at any time in the course. The warning may be removed if behavior improves sufficiently to indicate satisfactory conduct and consistency in meeting the expectations of the course.

## **Leave of Absence**

Students may submit a request to the Registrar for a leave of absence. The date of re-enrollment will be determined based on numbers of students in each course and the sequence of courses. The request must be submitted prior to the start of the leave of absence, unless unforeseen circumstances arise. The college may approve a leave of absence for a period of up to one year, however, financial aid repayment will begin after 180 days. The leave of absence may not exceed one year and transition activities may be required upon return. When returning to the course the student will start at the beginning of the course, regardless of where they were at the time the leave of absence was requested. Failure to return from an approved leave of absence shall be considered a withdrawal. The withdrawal date shall reflect the start date of the leave of absence even though the leave was approved. The withdrawal policy will then be implemented.

Students may be required to complete transition activities if a one semester gap occurs between courses. Faculty and the student will collaborate to determine individualized activities designed to promote

# ACADEMIC & ADMINISTRATIVE POLICIES

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success in the program. Transition activities must be completed prior to resuming courses.

## **Withdrawal Policy**

A student who wishes to drop a course after the first week of the semester must withdraw from the course. The student must complete a "Request to Drop/Add a Course" and submit it to Records and Registration. If a student withdraws from a course before the end of the tenth week of the semester, a grade of "W" (withdrawal) is recorded on the transcript.

A withdrawal is not computed in the grade point average.

Students who find it necessary to withdraw from a course after the tenth week of the semester must petition the Dean of the appropriate school for permission to withdraw. If approved to withdraw, the student will receive a WP (withdraw passing) or a WF (withdraw failing) on the transcript, dependent upon the student's grade in the course at the time of withdrawal. A WP or WF is not computed in the grade point average. If a student withdraws after the tenth week and does not petition for a WP or WF the course grade will be assigned based on work completed to date with zeros assigned for work not completed. This may result in a failing grade. The failing grade will be included in the grade point average. A WF in a course in the major will count as a failure and will impact progression.

Withdrawal deadlines for summer terms or sessions less than a full semester follow a prorated tuition refund and withdrawal schedule. Prorated schedules are available in Records and Registration.

## **Withdrawal from all Courses**

A student who withdraws from all courses prior to the end of the tenth week of the semester must complete the "Request to Withdraw" form to avoid receiving an automatic F in all courses. All College property must be returned prior to withdrawal, and arrangements must be made for meeting financial obligations. After the tenth week of the semester, a student may not withdraw. Students who find it necessary to withdraw after the tenth week of the semester must petition the Dean of the appropriate school for permission to withdraw.

Withdrawal deadlines for summer terms or sessions less than a full semester follow a prorated tuition refund and withdrawal schedule. Prorated schedules are available in Records and Registration.

## **Administrative Withdrawal**

Students may be withdrawn from BryanLGH College of Health Sciences by the administration for reasons such as failure to return from an approved Leave of Absence, dropping all classes after the beginning of the term, inability to progress in program due to academic performance, failure to register for subsequent semesters, failure to meet attendance requirements, or failure to meet course requirements. Students will be sent a letter informing them of the withdrawal, and will be placed on a Transcript hold until their name badges and student ID cards are returned. Administrative withdrawal is a neutral action and should not be considered as negative or of a

disciplinary nature.

Students who are administratively withdrawn from the Basic Nursing Assistant course during the summer semester due to background and/or abuse registry check findings will receive an 80% refund. All other students who are administratively withdrawn from a course will receive a tuition refund according to the tuition refund policy.

Students who are listed on a class roster but who have not attended class or clinical by the end of the first week of a term may be administratively withdrawn from the course.

## **Dismissal**

Failure to meet the requirements as listed in the College catalog, Student Handbook, and course requirements may be grounds for dismissal regardless of clinical/classroom performance. Students may be dismissed at any time in the program when performance, based on the Faculty's professional judgment, is deemed unacceptable or unsafe.

The President of the College has the authority to dismiss any student from the College at any time when such action is deemed to be in the best interest of the College or of the student.

Failure to follow medical center, agency or College policies is cause for immediate dismissal.

## **Readmission**

Students who fail to attend, fail to maintain continuous enrollment, are withdrawn or are dismissed must apply for readmission. All applicants for readmission will be considered and are subject to approval. Content of previous courses completed will be evaluated for applicability of content to the current curriculum. Credit for courses taken before withdrawal/dismissal will be determined at the time readmission is approved. The date of readmission will be determined based on the number of students in each course and the sequence of courses. Readmission is subject to availability of space in the desired program. Students will only be considered for readmission once; students in good academic standing may have the privilege of special consideration. Students who are dismissed from the College for unprofessional and/or clinical safety reasons will not be considered for readmission.

## **Readmission Procedure:**

1. Former students desiring to reenter BryanLGH College of Health Sciences must apply for readmission in writing six weeks prior to the time reentry is desired.
2. Data utilized in evaluating an application or request for readmission will include:
  - a. Review of performance in the College
  - b. Resumé of activities during period out of the College
  - c. Transcripts for any college courses completed since previous enrollment in the College
  - d. Two references—one from current employer, if applicable

# ACADEMIC & ADMINISTRATIVE POLICIES

- e. Evidence of current health status
  - f. When applicable, evidence of the resolution of personal problems or evidence of a plan in place to address deficits
  - g. Other information that may be required by the school specific Admission, Progression & Graduation (APG) subcommittee
  - h. Unanimous decision of the school specific APG subcommittee is considered to be a final decision in the process of readmission
  - i. In the event of a divided decision of the school specific APG subcommittee members, the case will be reviewed by the Undergraduate or Graduate Studies Committee, based on the written summary provided by the school specific APG subcommittee
  - j. The applicant will be informed in writing of the school specific APG subcommittee decision, with input from the Undergraduate or Graduate Studies committee, when indicated
3. School specific transitional activities in the form of a contract will be individualized based on the needs of the student. The transitional activities must be satisfactorily completed four weeks prior to the desired date of reentry. In special cases the plan or activities would be ongoing if the student was readmitted into the program.
  4. Readmission fee and other fees incurred by the requirements of the contract, dependent on the number of hours of instruction, will need to be paid in full before the student can be enrolled in the program specific subsequent courses.

## **Attendance**

Students are expected to attend all classes and participate in all planned clinical laboratory experiences. Each student is responsible for the content of all courses.

Absence may jeopardize a student's understanding of course content and may result in a grade reduction or failure of the course. Failure to attend a course does not automatically release a student from financial obligations associated with that course. Should a student decide to drop a class or withdraw from school the appropriate paperwork must be completed. Paperwork is available from Records and Registration.

## **Religious or Cultural Observances**

BryanLGH College of Health Sciences strives to be sensitive to the religious and cultural beliefs of an increasingly diverse population. If a concern arises regarding a scheduled College or course activity and a particular religious or cultural practice, the student must inform the instructor of the concern well in advance of the scheduled activity. If this concern results in the student being absent from course

activities, make-up may be required, , at the discretion of the instructor.

## **Classification of Students**

For eligibility for certain types of financial aid, the award amount is based on student classification according to the number of credit hours completed.

<i>Classification</i>	<i>Hours</i>
Freshman	0-24
Sophomore	25-51
Junior	52-89
Senior	90 and above

## **Academic Progress**

The College has adopted the standard published in the Federal Student Financial Aid Handbook, as the basis for the academic progress policy. Full time students may receive financial aid for a maximum of 150% of the credit hours required to complete their program or until the degree is acquired, whichever occurs first. Students who do not complete within the published time frame are evaluated on an individual basis to determine appropriate action for program completion.

## **Academic Standing**

A student who is dismissed is not allowed to enroll during the next semester or at any time in the future unless special permission is secured.

At the end of each semester students who fail to remain in good standing are placed on academic warning, probation or are dismissed.

### Academic Warning

Initiated when a student's cumulative GPA falls below the specified minimum level in a given semester.

### Academic Probation

Initiated when a student's cumulative GPA remains below the specified minimum level at the end of the academic warning semester.

### Academic Dismissal

Occurs when a student's cumulative GPA remains below the specified minimum level at the end of the academic probation semester.

The minimum grade point averages permitted for students to be considered in good standing for each classification are as follows:

### Freshman (0-24 hours)

Academic Warning	Cumulative GPA falls below 1.60
Academic Probation	Cumulative GPA remains below 1.60 at end of academic warning semester
Academic Dismissal	Cumulative GPA remains below 1.60 at end of academic probation semester OR fails 3/4 of attempted hours

# ACADEMIC & ADMINISTRATIVE POLICIES

## *Sophomore (25-51 hours)*

Academic Warning	Cumulative GPA falls below 1.80
Academic Probation	Cumulative GPA remains below 1.80 at end of academic warning semester
Academic Dismissal	Cumulative GPA remains below 1.80 at end of academic probation semester OR Fails 1/2 of attempted hours

## *Junior (52-89 hours)*

Academic Warning	Cumulative GPA falls below 1.90
Academic Probation	Cumulative GPA remains below 1.90 at end of academic warning semester
Academic Dismissal	Cumulative GPA remains below 1.90 at end of academic probation semester OR Fails 1/2 of attempted hours

## *Senior (90 hours and above)*

Academic Warning	Cumulative GPA falls below 2.00
Academic Probation	Cumulative GPA remains below 2.00 at end of academic warning semester
Academic Dismissal	Cumulative GPA remains below 2.00 at end of academic probation semester OR Fails 1/2 of attempted hours

### **Grading System**

Throughout individual courses, grades are recorded numerically. The final numeric course grade is calculated and is not rounded up. Letter grades are assigned according to the final numeric value and grade point averages are computed according to the following schedule: Students must receive a grade of "C" or above in all prerequisite and/or required General Education courses. Students must receive a "C+" or above in theory courses in a major and a "satisfactory" in the clinical component of a course. Final grades are recorded in letter grades in courses that have both a theory and a clinical component. If either portion of the course is failed, the course grade will be recorded as a "fail."

Percentage Grade	Letter Grade	Quality Points
95-100	A+	4.0
90-94	A	4.0
85-89	B+	3.5
80-84	B	3.0
75-79	C+	2.5
70-74	C	2.0
65-69	D+	1.5
60-64	D	1.0
59 and below	F	0

Additional Grades	Code	Quality Points
Audit	AU	--
Administrative Withdrawal	AW	--
Credit by Examination	CX	--
Credit by Validation	CV	--
Credit by Waiver	CW	--
Incomplete	INC	--
In Progress	IP	--
No Pass	NP	0
Pass	P	--
Satisfactory	S	--
Unsatisfactory	U	0
Withdrawal	W	--
Withdraw Failing	WF	--
Withdraw Passing	WP	--

Cumulative GPA equals the total quality points divided by total credit hours from the program prerequisite courses and/or required general education courses and courses in the major.

### **Pass/No Pass Policy**

No courses in the major may be taken Pass/No Pass. Anatomy and Physiology may not be taken Pass/No Pass.

Each student may use no more than six semester credit hours with grades of "P" toward prerequisite/general education requirements. Only courses for which pass is designated as "C" or above by the transferring institution will be considered for transfer credit.

A grade of "P" is recorded on the student's transcript and is not computed in the student's grade point average. A grade of "NP" is recorded on the student's transcript and is computed in the student's grade point average.

### **President's & Dean's List**

The President's list is composed of students who were taking 12 credit hours or more at BryanLGH College of Health Sciences and received a 4.0 grade point average (GPA).

The Dean's list is composed of students who were taking 12 credit hours or more at BryanLGH College of Health Sciences and received a 3.5 GPA or higher. The lists are announced following each semester by Records and Registration.

# ACADEMIC & ADMINISTRATIVE POLICIES

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## **Clinical Grading Policy**

Clinical performance is graded as Satisfactory (S) or Unsatisfactory (U). A grade of "U" will be calculated into the GPA as zero quality points. A grade of "S" does not affect the GPA.

Courses with both a clinical and theory component will be recorded on the transcript as the theory grade received unless the clinical grade is unsatisfactory. A student must pass both the clinical and the theory portions of the course. If the clinical grade is unsatisfactory, a grade of "F" will be recorded for the course and no quality points will be earned toward the GPA.

In clinical courses that do not have a theory component, a grade of "S" or "U" will be recorded. A grade of "U" will earn zero quality points and will be calculated into the cumulative GPA. If a student retakes the course and receives a satisfactory grade, the "U" will be replaced and quality points restored accordingly.

## **Incomplete Grade**

A grade of incomplete (Inc) may be recorded only when the student is in good standing in the course, has already substantially completed the course requirements, and is experiencing extenuating circumstances considered valid by the instructor (e.g., illness, military service, death in the immediate family, personal or family hardship). A grade of incomplete will not be granted without approval of the course instructor and appropriate college official.

The instructor will indicate the date by which the course work must be completed in order to have the grade of incomplete replaced by a letter grade on the student transcript. The completion date is not to exceed one year, whether or not school is in session. If the student does not complete the course requirements within the allotted time frame, a grade of "F" will be recorded on the student transcript.

## **Finals Week**

BryanLGH College of Health Sciences final exams are to be scheduled at the regularly scheduled course time during the final week of the course. Scheduling the final exam at a time other than the regularly scheduled course time must be agreed upon by all concerned (variables to consider include conflicts with other final exams, clinical schedules, ATI exam schedules, room availability, etc.).

For courses in which there are both final papers/projects and a final, it is recommended that final papers and/or projects be due the week prior to final exams to allow students adequate time to prepare for their exams. For courses in which a final paper/project is substituted for a final exam, the paper/project should be due no later than the regularly scheduled course time during the final week of the course.

## **Graduation Requirements**

Students must complete the general education and education requirements in the major as described in the Curriculum and Courses section of the catalog. Students are expected to assume responsibility for

understanding the requirements of their program and for seeking appropriate assistance to do so.

Diplomas and transcripts will not be issued to graduates with outstanding financial, testing or exit interview obligations to the College of Health Sciences, until such obligations are met.

Students must apply for graduation by the posted deadline in the semester prior to the one in which they wish to graduate. Participation in the ceremony does not obligate the College to confer a degree should the student subsequently fail to meet degree requirements.

Nursing students are asked to submit one wallet sized photograph to the Coordinator of Student Services prior to graduation.

Graduation ceremonies are held in May and December. Degree conferral dates are in May, August, and December following the end of the term. Arrangements regarding date, time, place and program are the responsibility of college administration. The \$200 graduation fee must be paid before the degree will be awarded.

Students who complete all their degree requirements at times other than the end of a semester (i.e. mid-term) will be invited to participate in the next regularly scheduled graduation ceremony and their graduation date will be the next identified degree conferral date. Students wishing to participate in an earlier commencement ceremony may file a petition with the Registrar. Each petition will be reviewed on a case by case basis.

There is no August ceremony, therefore students with 6 or less credits needed to complete graduation requirements at the end of the spring semester may participate in the May graduation ceremony provided they are registered for the needed courses in the immediately following summer term; and will complete those needed courses by the end of the summer term as defined by BryanLGH College of Health Sciences. Students will not receive their diploma until all requirements are completed. These students will not be considered for May graduation honors. Students completing requirements in August will be listed as August graduates in the May graduation program. These students will not be considered for May graduation honors and will receive their diploma and honors when all requirements are completed. Upon completion of program requirements, if criteria have been met for honors, the diploma and transcript will reflect those honors.

Students who do not successfully complete program requirements at their expected time will no longer be considered a part of their intended graduation cohort. Upon completion of program requirements the students may reapply for graduation.

The College does not grant licensure or ensure an individual's eligibility to obtain licensure after graduation. It is each student's responsibility to know and understand the requirements for licensure and/or registry.

# ACADEMIC & ADMINISTRATIVE POLICIES

## Graduation Honors

Graduates with an Associate Degree will be awarded honors based on cumulative grade point averages as follows:

Highest Distinction	3.87 or above
High Distinction	3.64-3.86
Distinction	3.50-3.63

Graduates with a Baccalaureate Degree will be awarded honors based on cumulative grade point averages as follows:

Summa Cum Laude	3.87 or above
Magna Cum Laude	3.64-3.86
Cum Laude	3.50-3.63

## Formal Complaints

Any internal or external individual may submit a written complaint to the President of the College. General information on the nature of complaints on file is available to any individual upon written request.

The complete policy for formal complaints is outlined in the student handbook.

## Grievance Policy

To assist students, the College has an established grievance policy that provides a means for resolving problems or disputes. The President of the College reserves the right to make final decisions. The complete grievance policy is outlined in the Student Handbook.

## Privacy Act

BryanLGH College of Health Sciences abides by the regulations and requirements of the Family Educational Rights and Privacy Act (FERPA) of 1974. Under the provisions of this act, students have specific rights related to their educational records:

- The right to inspect and review the student's records within 21 days of the day the College receives a request for access.
- The right to request the amendment of any educational records that a student believes are inaccurate or misleading.
- The right to consent to disclosures of personally identifiable information contained in a student's education records, except to the extent that FERPA authorizes disclosure without consent.
- The right to file a complaint with the U.S. Department of Education concerning alleged failures by the College to comply with the requirements of FERPA.

Information which the Act allows the College to release to a third party without the consent of a student (directory information) is limited to the following items:

- student's name, address, telephone listing and electronic mail address
- field of study (major)
- academic class (freshman, sophomore, junior, senior)

- enrollment status (full-time or part-time)
- dates of attendance, graduation
- estimated graduation date
- academic awards and degrees
- participation in officially recognized activities and sports.

Students have the right to withhold the disclosure of this information. Students who wish to restrict the disclosure of this information or who desire additional detailed information regarding student rights outlined in the Family Educational Rights and Privacy Act of 1974 should contact the Registrar.

Rights of access of records accorded to parents of students are transferred to students who are 18 years of age or are attending institutions of post-secondary education.

## Record Retention

BryanLGH College of Health Sciences maintains a Record Retention Policy in compliance with The Family Educational Rights and Privacy Act (FERPA); the Veteran's Administration; the United States Department of Education and the American Association of Collegiate Registrars and Admissions Officers (AACRAO) *Retention of Records, A Guide for Retention and Disposal of Student Records*. Records are maintained for applicants, enrolled students, graduates and students who are withdrawn. Records and Registration is responsible for maintenance of permanent student records.

## Transcripts and Records Request Policy

Requests for copies of transcripts must be received in writing and must include name, dates of attendance, date of birth, Social Security number, current daytime phone number, and the signature of the student or former student. The Request and Authorization to Release Record Information form is available from Records and Registration or on the College's web site. The request must include the signature of the student and be submitted via hard copy or fax.

Official copies of transcripts will be released only to designated educational institutions or organizations. These copies must be sent directly to the requesting institution or organization and cannot be released to students, former students, or parents of students.

Official copies bear the Registrar's signature and the College seal and are printed on security paper. Unofficial copies may be released directly to students or former students and will be stamped, "Issued to the student at his/her request." The fee for transcripts, either official or unofficial, is \$5 each. The fee is waived for current students. Transcripts will be sent within two days of receipt of request and payment. Students may also print unofficial copies of transcripts from SONISWeb.

Transcripts will not be issued to students or former students who have a hold on their account. Holds are issued for reasons such as unmet financial or other obligations to the College.

# ACADEMIC & ADMINISTRATIVE POLICIES

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Academic records from other institutions will not be released by BryanLGH College of Health Sciences.

Requests for copies of other records including health records, diplomas, and enrollment verification must also be received in writing; however, copies of these documents may be faxed or issued directly to students. Health records may also be printed by students from SONISWeb.

## **Holds**

Holds of three types, Registration, Roster, and Transcript, may be placed on a student's account.

- Roster holds bar students from attending class until the hold is addressed.
- Registration holds prevent students from registering for future terms or adding courses in the current term.
- Students with transcript holds will be unable to view their unofficial transcript in SONISWeb and their transcripts (official or unofficial) will not be released until the holds have been cleared.

## **Release of Reference Information Policy**

Faculty and staff of BryanLGH College of Health Sciences may provide written reference information to students upon written request. Students must fill out the Letter of Reference Authorization Form and turn it in to Records and Registration for processing. The request must include the signature of the student and be submitted via hard copy or fax. Faculty and staff will receive a copy of the completed form and the original request form will be kept in the student's file.

## **Name Changes**

Students wishing to change their name in official college records should fill out a Student Name Change Form and submit it to Records and Registration with a copy of acceptable documentation of the name change. The following documents are considered acceptable documentation of an official name change: copy of marriage certificate/divorce decree; copy of court document with new name; copy of social security card with new name; copy of driver's license with new name.

## **Posthumous Degree Policy**

Degrees are awarded posthumously to candidates who have completed the academic requirements and unfortunately pass away before the graduation date.

A request for a posthumous degree may be initiated by faculty. The request must be in writing and include a copy of the notification of the students' death certificate.

Posthumous degrees may be awarded to deceased students who meet the following criteria:

- The death occurred in the academic year in which the student would have graduated;
- The student was in good standing both academically and professionally;
- The posthumous degree has the recommendation of the Chair of the Department, the Faculty, the Provost, and the President;
- The student has completed 75% or more of degree requirements.
- Individual circumstances will be considered on a case by case basis





# CAMPUS POLICIES

# CAMPUS POLICIES

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## **Student Rights and Responsibilities and Code of Conduct**

Enrollment in BryanLGH College of Health Sciences communicates the intention to abide by the values and policies of the College. The student has the responsibility to demonstrate behaviors expected of a responsible adult in this society. Along with responsibilities, the student has certain rights. The College Values Statement is published in the Catalog and the Student Handbook. Policies for student rights and responsibilities and code of conduct are published in the Student Handbook.

## **Academic Integrity**

BryanLGH College of Health Sciences is committed to being an academic community of integrity. Academic integrity is expected in all endeavors of its administration, faculty, staff, and student body. Academic integrity encompasses honesty, trust, fairness, respect, and responsibility as they relate to all aspects of academic life, including administration, teaching, learning, and research. The resulting culture of integrity promotes academic excellence at all levels.

Students are expected to live the values of BryanLGH College of Health Sciences and meet the high standards of honesty, trust, fairness, respect, and responsibility delineated in the College's academic integrity policy.

Academic integrity includes but is not limited to:

- Behaving in a civil manner within the learning environment
- Demonstrating personal integrity and fostering integrity in others
- Coming prepared to learn and actively participating in class and clinical
- Seeking assistance from appropriate sources as needed
- Managing time and resources to allow appropriate commitment to learning
- Taking responsibility for understanding the meaning and implications of academic integrity and dishonesty as described in the academic integrity policy

Academic dishonesty includes but is not limited to:

- Cheating: using or providing unauthorized assistance to gain or promote an unfair advantage.
- Deliberate Plagiarism: intentionally claiming the words or ideas of another as one's own without attempting to give credit to the originator of the words or ideas, thereby implying the words or ideas are one's own.
- Negligent Plagiarism: a pattern of failure to properly credit sources in a written or oral assignment, due to inexperience with writing academic papers or making professional presentations.
- Fabrication/Falsification: reporting or recording false information, or omitting required information.

Any individual who violates the academic integrity policy will be subject to disciplinary action up to and including dismissal from the college.

## **Campus Security/Crime Prevention**

BryanLGH College of Health Sciences complies with the Student Right to Know and Campus Security Act of 1990, 20 U.S.C. Section 1092. Crime statistics and policies concerning campus safety and security are found in the Student Handbook. Anyone interested in accessing crime log information should contact the Dean of Students. The Office of Post-Secondary Education (U.S. Department of Education, Washington D.C.) Campus Crime and Security data for BryanLGH College of Health Sciences is available at <http://ope.ed.gov/security>.

The College is committed to providing a safe and secure campus environment. All members of the campus community are encouraged to immediately report any suspicious or criminal activity observed.

Depending upon the nature of the incident, Medical Center security officers will instigate the appropriate response according to Medical Center/College policy. If appropriate, the Lincoln Police Department will be called in to assist or resolve the incident.

The possession of firearms, weapons or fireworks on campus is prohibited. Possession of any of these items on campus may result in immediate dismissal from the College.

## **Harassment**

Harassment is a form of unlawful discrimination. BryanLGH College of Health Sciences is committed to creating and maintaining an environment in which all members of the College community are treated with respect and dignity, and are free from verbal or physical harassment. Faculty, students and staff are responsible for maintaining an educational and working environment that is congruent with the mission, vision, purpose and goals of the College.

Verbal or physical harassment of any member of the College is a violation of College policy. Appropriate disciplinary action will be taken against any person found to have violated the policy.

Sexual harassment is distinguished from voluntary sexual relationships by the introduction of the element of coercion, threat, hostility or unwanted attention of a sexual nature. Such behavior constitutes an offense that may lead to disciplinary action by the College.

## **Sexual Assault**

The College recognizes incidents of rape, acquaintance rape and other sex offenses as violations of individual rights and dignity that will not be tolerated. Sexual violence is not only an act of violence, aggression and coercion against a single individual, but it is also an attack on a central value important to the College. Victims of sex offenses are encouraged to report the incident to the Lincoln Police Department and Medical Center security or a College official.

# CAMPUS POLICIES

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## **Drug and Alcohol Policy**

Students are expected to abide by all federal, state and local laws. Students are responsible for their actions regarding drugs and alcohol.

### Alcohol

Student possession of or consumption of alcohol on the primary College campus, extension of the College campus or at any College sponsored student event shall constitute misconduct. A College sponsored student event is any gathering that is arranged or endorsed by the College, where students are in attendance. Attendance at any College activity, either curricular or extra-curricular, while under the influence of alcohol, shall constitute misconduct, unless prior permission from BryanLGH College of Health Sciences administration has been obtained and the alcohol is sold off campus by a licensed independent vendor via a cash bar and only to persons of legal age.. Any student or student organization that violates this policy will be subject to disciplinary action up to and including dismissal from the College.

### Drugs

BryanLGH College of Health Sciences denounces and prohibits the consumption, sale, possession, manufacture or distribution of any illegal substance by students, faculty or staff. Participation by any student or student organization in any of the above activities on the primary College campus, extension of the College campus or at any College sponsored student event shall constitute misconduct and may result in disciplinary action up to and including dismissal from the College.

## **Tattoo Policy**

Tattoos that are deemed offensive (including, but not limited to, drug related, sexually explicit, offensive language, and/or gang related in nature) must be covered at all times while at school or in school related experiences. The student must be able to comply with the policies of various agencies where clinical experiences are schedule in order to participate in the required clinical courses of each program. Disputes will be resolved by the Undergraduate Studies Committee.



# SERVICES & ACTIVITIES



# SERVICES & ACTIVITIES

## Student Success Center

The Student Success Center is comprised of six divisions, Academic Counseling, Professional Development, Financial Aid Services, Student Services, Health and Wellness, and Campus Culture.



Academic Counseling supports academic success. They provide support to students to improve academic standing, early intervention to improve academic outcomes and increase student involvement in the learning process by facilitating a peer tutor program.

Professional Development enhances the skills students need to be successful in college and beyond. They provide support to students to promote personal and professional success, increase student involvement in the college experience by promoting involvement in professional activities, act as liaison for student referrals and information to internal and external resources, collaborate with faculty on student issues and initiate and evaluate a student mentoring program to enhance both college relationships and professionalism of students.

Financial Aid Services provides information and direction to students wanting financial aid resources to attend BryanLGH College of Health Sciences. They provide counsel to all students in exploring funding methods and resources to best meet their college expenses, recognize and honor the responsibility to deliver funds in a timely and equitable manner, identify new methods of financial assistance delivery, while continuously improving the processes, work collaboratively with all areas of the College to consistently uphold a high standard of honesty, integrity and a commitment to student service.

Student Services provides opportunities for students to develop personally, professionally and socially through active engagement in community service, student organizations and student life. They provide educational, cultural, wellness, social and recreational programs for students, assistance to students and student organizations to interact more effectively with one another and with the college community, promote self-governing opportunities and provide access to decision making activities for students and provide efficient administrative services for student retention, orientation, activities and counseling.

Health and Wellness Services provides support and guidance for the members of the college community in regard to health and wellness. They plan, develop, implement and evaluate health promotion activities, and health screening activities with a focus on health promotion and injury/illness prevention.

The Campus Culture at BryanLGH College of Health Sciences cultivates an inclusive and responsive college climate underscored with fairness and equality, provides a safe and stimulating learning environment, welcomes and celebrates the diversity of the campus community, provides support and services which are inclusive and accessible to all students, provides opportunities for students, faculty, and staff to interact with one another in formal and informal settings in order to establish a campus culture that facilitates student engagement and interaction, increases diversity related knowledge and cultural competence among college constituents through programs and services.

## Student Health Services

Health and Wellness Services is also a liaison to student health services. The objective of the student health program is to provide adequate health supervision and service that best serves the interests of both the students and the College. Emphasis is placed on positive health attitudes and increasing awareness of the students' attitudes regarding their health. Prior to enrollment, the student submits a health history and validation of required immunizations.

Students are required to follow the policies in the Student Handbook when using the Student Health Services for illnesses and health needs. Each student is required to show proof of health insurance coverage. Coverage must be maintained throughout enrollment at the College.

## Advisement and Counseling Services

BryanLGH College of Health Sciences offers academic advising to all students from new student registration until graduation. The academic advisor assists the student in developing an academic plan for registration and sequencing of prerequisite and General Education courses.

Upon enrollment at the College, students are assigned a major advisor in their program of study. The major advisor monitors the student's academic progress and serves as a referral source for non-academic concerns. Contact may be initiated by either the student or the advisor. Students are encouraged to maintain frequent contact with their advisors to explore options and seek clarification as they set and achieve academic goals.

## Housing

Students must make their own arrangements for housing and are responsible for all costs involved.

## Services for Students with Disabilities

Students with disabilities are eligible for admission to BryanLGH College of Health Sciences if they meet the admission criteria identified in the Admission and Admission Policies sections of this catalog. The College is committed to providing an environment conducive to learning for all students, including students with disabilities who have been admitted to the College.

## SERVICES & ACTIVITIES

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The College complies with federal regulations under the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 and recognizes that it is required to provide reasonable accommodations that afford an equal opportunity for qualified students with disabilities. The College believes that achieving reasonable accommodations for a student with a disability is a shared responsibility between the student, faculty and staff. The College recognizes that it is not required to lower its standards or fundamentally alter the nature of the program provided.

Qualified students requiring reasonable accommodations to successfully complete the program of study are encouraged to notify the College of those accommodations in writing as early as possible to prevent delays in admission or progression through the program.

### **Library**

The Library is a core component of all academic programs. The collection includes approximately 80 print journals, 34,000 electronic journals, 5,000 monographs and 300 multimedia materials. The Library website provides access to an online catalog, links to bibliographic databases, course specific Library guides, helpful online tutorials and subject guides. The Library provides the Research Assistance Program (RAP) to assist users in efficiently and effectively accessing using information resources.

### **Simulation and Skills Laboratories**

The skills and simulation laboratories are easily accessible for student use. Students utilize the facilities in the laboratories to learn, practice and validate skills, enhance critical thinking, and learn patient management in a safe environment.

### **Science Laboratory**

The College's natural science laboratory provides opportunities for students to practice what they have learned and draw correlations between theory and biological, chemical, and natural process that occur in the human body, other organisms and in nature.

### **Student Organizations**

#### *Action For Students (AFS)*

This organization promotes social and community service. Members actively participate in community outreach programs. Being a member will enhance your life personally and professionally. There are no membership dues.

#### *BryanLGH Student Nurses' Association (BSNA)*

Nursing students are encouraged to join BryanLGH Student Nurses' Association (BSNA). Upon payment of dues to BSNA, students become members of the Nebraska Student Nurses' Association and the National Student Nurses' Association. Dues are the responsibility of the student. Membership and participation in the activities of the organizations are an important part of the development of the professional nurse. Students are encouraged to join in committee work and to hold an office in school, state and national organizations.

#### *American Red Cross*

Participation in American Red Cross activities is offered through the Lincoln Red Cross Chapter. Students may be involved in a variety of projects. Upon completion of 20 hours of volunteer service and RN licensure, the student receives a Red Cross pin.

#### *Caring with Christ*

This organization is open to all students. Its mission is to disciple our classmates, faculty and clients we care for, minister to those in need, rejoice in the gifts of the day, prayerfully support one another, and incorporate the word of the Lord into our daily lives.

#### *Health Promotion Organization*

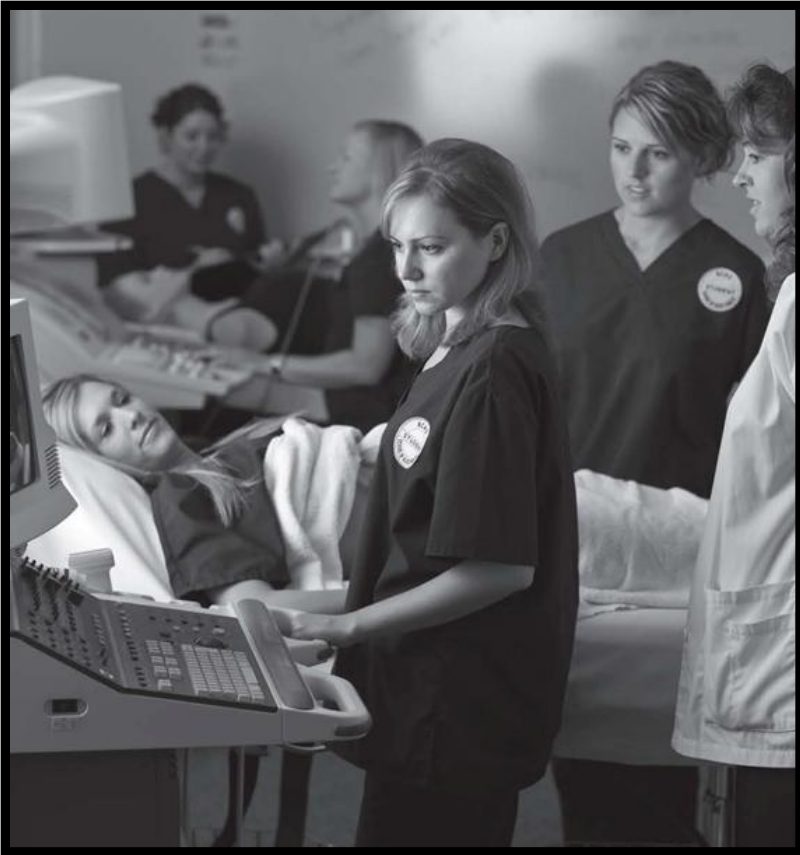
The Health Promotion Organization (HPO) offers student activities such as intramural sports and volunteer opportunities for local walks and the Lincoln Marathon. Information for these activities are communicated by email, the student newsletter and/or posted in the student center. College logo wear are sold for funding raising activities.

### **BryanLGH College of Health Sciences Student Government Association**

The BryanLGH College of Health Sciences Student Government Association (SGA) is the voice of students and serves as a communication link between students and the College community. SGA works toward building a positive campus environment.



# CURRICULUM & COURSES



# CURRICULUM & COURSES

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## **BryanLGH College of Health Sciences General Education Plan**

A plan for General Education has been developed for both the Baccalaureate and Associate degree level. This plan addresses seven categories of study: Natural Sciences, Social Sciences, Communications, Mathematics, Humanities/Fine Arts, Health/Physical Education/Recreation and Business/Management. Students completing a degree from BryanLGH College of Health Sciences must meet the requirements of the General Education plan. The General Education plan provides a core of knowledge which is further integrated into the student's major area of study. In addition to the core provided in the General Education plan, students may have other required General Education courses that must be completed to complement the major area of study.

### **Philosophy of General Education**

The Philosophy of General Education of BryanLGH College of Health Sciences is built on the premise that education is more than a program of study. It is a life-long, interactive process that builds on previous experience and expands one's world view promoting a change in attitudes, beliefs, values and/or behaviors. General Education establishes a broad foundation of knowledge that is essential to the development of an educated person. Multidimensional, holistic growth of the individual is promoted through an integrated study of the Natural Sciences, Social Sciences, Communication, Mathematics, Humanities/Fine Arts, Health/Physical Education/Recreation and Business/Management. A core of General Education knowledge is fundamental to any area of study within BryanLGH College of Health Sciences.

The educational process enables the graduate to think critically; communicate effectively both in written and oral forms; understand the forces of nature; participate as a contributing member of a culturally diverse, ever changing society; make ethical decisions; apply mathematical logic and reasoning skills; appreciate and recognize management as a response to economic and social factors; and value learning as a life-long process.

Through completion of the BryanLGH College of Health Sciences' General Education plan, graduates will demonstrate the following learning outcomes

1. An understanding of the forces of nature, including life and physical sciences that affect human response to and interaction with the world around them.
2. An understanding of the impact of political, social, cultural and economic factors in shaping values, beliefs, traditions and behaviors in a diverse society.
3. The ability to communicate and interpret meaning accurately and effectively through reading, writing, speaking and listening skills.
4. The ability to apply mathematical logic and scientific reasoning skills in problem solving.
5. The ability to understand, appreciate and engage in creative expression, philosophical thought and ethical decision making.
6. The ability to recognize current economic, ethical, social, and legal factors that relate to business and management practices.

The table on the next page illustrates the General Education plan for BryanLGH College of Health Sciences according to categories of study, learning outcomes and required number of semester credit hours in each category for the Associate and Baccalaureate degrees. This table reflects the minimum General Education requirements for all students in an Associate degree or Baccalaureate degree program. Additional General Education courses may be required for specific majors.

# CURRICULUM & COURSES

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## BryanLGH College of Health Sciences General Education Plan

Categories of Study	General Education Learning Outcomes	Required Semester Hours for Associate Degree	Required Semester Hours for Baccalaureate Degree
Natural Sciences	Demonstrate an understanding of the forces of nature, including life and physical sciences that affect human response to and interaction with the world around them.	8	16
Social Sciences	Demonstrate an understanding of the impact of political, social, cultural and economic factors in shaping values, beliefs, traditions and behaviors in a diverse society.	3	9
Communications	Demonstrate the ability to communicate and interpret meaning accurately and effectively through reading, writing, speaking and listening skills.	3	3
Mathematics	Demonstrate the ability to apply mathematical logic and scientific reasoning skills in problem solving.	3	3
Humanities/Fine Arts	Demonstrate the ability to understand, appreciate and engage in creative thinking, philosophical thought and ethical decision making.	6	9
Business/Management	Demonstrate the ability to recognize current economic, ethical, social, and legal factors that relate to business and management practices.	0	3
Total General Education Semester Hours Required for Degree		23	43

This table reflects the minimum General Education requirements for all students in an Associate degree or Baccalaureate degree program.

# CURRICULUM & COURSES

## NATURAL SCIENCES

### **ANATOMY AND PHYSIOLOGY I (BIOS101)** (with lab) 4 semester hours

#### *Course Description*

The purpose of this course is to provide information about the normal structure and functioning of the human body so students can discuss and make decisions concerning human bodies in an informed and intelligent basis. This course will emphasize information about basic cell biology and chemistry, body tissues, the integumentary system, skeleton, joints, muscles, and the nervous system. (Prerequisites: none)

### **ANATOMY AND PHYSIOLOGY II (BIOS102)** (with lab) 4 semester hours

#### *Course Description*

The purpose of this course is to provide information about the normal structure and functioning of the human body so students can discuss and make decisions concerning human bodies in an informed and intelligent basis. This course will emphasize information about the autonomic nervous system and visceral reflexes; sense organs; endocrine, circulatory, lymphatic and immune, respiratory, urinary, digestive and reproductive systems; nutrition and metabolism; and human development. (Prerequisite: Anatomy and Physiology I)

### **INTRODUCTION TO EPIDEMIOLOGY (BIOS103)** 3 semester hours

#### *Course Description*

This course introduces basic epidemiologic principles including surveillance, study design and critical analysis of data. Critical thinking skills are developed in understanding disease transmission, prevention, causality including environmental and genetic factors, and measurement of risk. Topics to be discussed include historical perspectives of epidemiologic measures of disease occurrence and of association, clinical epidemiology, disease screening and study design. (Prerequisites: Microbiology, Elements of Statistics)

### **PATHOPHYSIOLOGY (BIOS201)** 3 semester hours

#### *Course Description*

Basic concepts of pathophysiology are introduced with a study of pathological changes in major body systems and the resulting human response including how pathological processes are manifested, progress in the body, and primary and secondary effects. (Prerequisites: Anatomy and Physiology I and II)

### **IMMUNOLOGY (BIOS202)** 3 semester hours

#### *Course Description*

An introduction of concepts in immunology and their role and importance in various human diseases. Topics that may be included, but not limited to, are development of the immune system, structure and function of cellular and humoral components, immune responses to infections, vaccine development, tumors,

autoimmune disorders, allergies, and immune deficiencies and AIDS. (Prerequisites: Anatomy & Physiology I and II, Microbiology)

### **COMPUTER SIMULATIONS IN BIOMEDICAL SCIENCES (BIOS301)** 3 semester hours

#### *Course Description*

An introduction to computer simulation of dynamic biomedical systems modeling that will include theoretical studies and hands-on modeling experience. It will familiarize students with systems analysis and modeling with applications and case studies drawn primarily from human physiology, microbiology, and pharmacology. Students will learn how to formulate, build, and analyze models. (Prerequisites: Anatomy & Physiology I and II, Microbiology)

### **BIOINFORMATICS (BIOS302)** 3 semester hours

#### *Course Description*

This course is designed to introduce students to the field of bioinformatics and genomics. An examination of the genomic organization of viral, bacterial, plant, animal, and human organisms will be performed. The central role of bioinformatics in managing and mining the vast amounts of biological information generated from the genome projects will be emphasized. This course will provide foundation for system biology and pathology informatics. (Prerequisites: Anatomy and Physiology I and II, Microbiology, General or Organic Chemistry)

### **SENIOR SEMINAR-CAPSTONE (BIOS401)** 1 semester hour

#### *Course Description*

Poster presentation of research/scholarly activities. (Prerequisite: senior status)

### **ADVANCED ANATOMY (BIOS403)** 4 semester hours

#### *Course Description*

Cross listed with NРАН755

Advanced anatomy deals with the gross structure of the human body. It is the basic biomedical course in which students learn the morphological setting upon which clinical knowledge and experiences are built. In this course, anatomy is approached from gross structural and embryological perspectives. In both cases, students will use this knowledge to recognize normal variations and clinically relevant abnormalities during their professional careers. (Prerequisites: Anatomy & Physiology I and II)

# CURRICULUM & COURSES

## NATURAL SCIENCES

### **ADVANCED PHYSIOLOGY (BIOS502)**

4 semester hours

#### *Course Description*

Cross listed with NРАН780

Advanced Physiology is designed to give students advanced understanding of the function of the human body. The course provides an overview of how cells, tissues, organs and organ systems function together to create one organism. Principles of homeostasis will be applied to the understanding of every body system. Basic knowledge in human anatomy and physiology and biochemistry is expected. A key goal is to become familiar with normal physiology to be able to comprehend pathological conditions as presented later in advanced biomedical courses. (Prerequisites: Anatomy & Physiology I and II)

### **GENERAL CHEMISTRY (CHEM103)**

(with lab)

4 semester hours

#### *Course Description*

Basic concepts of chemistry are introduced with a study of the structure of matter, its physical properties and laws describing them; the periodic table and its relation to atomic structure, and chemical properties. Inorganic, organic, and physiological chemistry concepts are introduced in theory and laboratory study. (Prerequisite: none)

### **ORGANIC CHEMISTRY (CHEM104)**

3 semester hours

#### *Course Description*

This course provides a broad introduction to the basic principles, theories and applications of the chemistry of carbon compounds. Topics will include modern structural theory, organic nomenclature, stereochemistry, reaction mechanism and kinetics, and an introduction to functional group chemistry. Also covers the interpretation of IR, NMR, and mass spectroscopy for the structure determination of organic compounds. (Prerequisite: Introductory/General Chemistry)

### **INTRODUCTION TO FORENSIC SCIENCE (FORS101)**

3 semester hours

#### *Course Description*

This course introduces the basic principles of Forensic Science as it relates to the criminal investigative process. The course provides an overview of the relationship between the Natural Sciences to the study of Forensic Science, emphasizing applications of Forensic Science within Health Sciences fields. (Prerequisite: none)

### **MATH STRENGTHENING (MATH100)**

non-credit

#### *Course Description*

This course is designed to strengthen and/or develop students' math skills basic to intermediate algebra, general chemistry, descriptive physics, and pharmacologic math as well as other everyday applications. Student strengths and areas for development are identified through math assessment tools. The course will include information presented to the entire class as well as individualized learning plans. (Prerequisite: none)

### **MATH FOR HEALTHCARE PROVIDERS (MATH104)**

2 semester hours

#### *Course Description*

This course applies basic math and algebra skills to the healthcare setting. Emphasis is placed on pharmacologic math as it relates to dosage calculation and medication administration. (Prerequisite: Successful completion of Math Competency Exam as specified by individual program of study OR MATH100: Math Strengthening)

### **INTERMEDIATE ALGEBRA (MATH105)**

3 semester hours

#### *Course Description*

Review of topics in a second year high school algebra course taught at the college level. This course emphasizes equations and inequalities, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, systems of equations and inequalities, and analytic geometry. (Prerequisite: Satisfactory completion of Math Competency Exam)

### **MICROBIOLOGY (BIOS205)**

(with lab)

4 semester hours

#### *Course Description*

Theory and laboratory study of the elementary principles and methods of bacteriology and microorganisms and their relationship to health and disease. Basic concepts of control and prevention of disease are introduced including transmission, incubation, growth, and control. (Prerequisite: none)

### **NUTRITION (NUTR121)**

3 semester hours

#### *Course Description*

Basic principles of human nutrition are introduced with emphasis on nutrients, food sources, and function of nutrients within the body. Nutritional requirements throughout the life span will be addressed as well as the impact of cultural, psychological, and personal health factors on an individual's nutritional status. Students will be exposed to methods to assess nutritional status and provide preventive and therapeutic dietary teaching. (Prerequisite: none)

### **DESCRIPTIVE PHYSICS (PHYS105)**

(with lab)

4 semester hours

#### *Course Description*

This course provides a conceptual view of physics including the areas of mechanics, matter, heat, sound, light, optics, electricity, magnetism, radioactivity, and nuclear energy. (Prerequisite: Intermediate Algebra)

# CURRICULUM & COURSES

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## NATURAL SCIENCES

### **ELEMENTS OF STATISTICS (STAT210)**

3 semester hours

#### *Course Description*

This course provides the student with an enduring understanding of, and appreciation for, the statistical processes most used in healthcare research. Emphasis is placed on development of a working knowledge of basic statistical processes sufficient for evaluation and interpretation of the statistical methods and findings in published reports of research. (Prerequisite: none)

# CURRICULUM & COURSES

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## SOCIAL SCIENCES

### **DEATH & DYING (GERO201)**

2 semester hours

This survey course offers a broad overview of the psychological aspects of death and dying in our society. Topics include attitudes toward and preparation for death; the understanding of and care for terminally ill patients; funeral rituals; burial, mourning and grief practices; grief counseling; suicide and euthanasia. Readings and classroom activities will be supplemented by students' self-exploration and writing on feelings, attitudes, and beliefs about death.

### **INTRODUCTION TO PSYCHOLOGY (PSYC121)**

3 semester hours

#### *Course Description*

Includes study of the basic principles of development, the origins of human behavior, and the physical, mental, emotional, and social development of the individual. Psychological principles of human behavior including theories of learning, motivation, emotion, perception, thought, intelligence, and personality, psychological, cognitive, and emotional development will be discussed. (Prerequisite: none)

### **HUMAN GROWTH AND DEVELOPMENT (PSYC201)**

3 semester hours

#### *Course Description*

Includes the study of physical, psychological and social development of the human being from conception to death. Focuses on characteristic changes that take place, when they occur, and their causes and influences on behavior in cohort groups or in the individual. Prominent developmental theories and stages of growth and development across the life span are discussed. (Prerequisite: none)

### **ABNORMAL PSYCHOLOGY (PSYC321)**

3 semester hours

#### *Course Description*

This course introduces the student to the most current concepts of mental and emotional disorders. The focus will be on causes and types of psychological disorders as well as a brief review of the history and theories of abnormal psychology. Students will become familiar with symptoms of the numerous psychological disorders and develop an understanding of the importance of treatment and ongoing research in this area. (Prerequisite: Introduction to Psychology)

### **INTRODUCTION TO SOCIOLOGY (SOC1101)**

3 semester hours

#### *Course Description*

The course includes study of association and communication, the nature and types of human groups, and the nature and growth of culture, social organizations, and social institutions. The student will study the basic concepts of society and how society influences human behavior. (Prerequisite: none)

### **GLOBAL COMMUNITY: CULTURAL DIVERSITY & HEALTHCARE (SOC1222)**

3 semester hours

#### *Course Description*

This course introduces the student to cultural concepts including the relationship of culture to life style and life decisions. The student will be exposed to what constitutes a culture, and how culture impacts behavior, values, and beliefs. (Prerequisite: none)

### **HEALTHCARE RESPONSE TO VIOLENCE IN SOCIETY (SOC1323)**

3 semester hours

#### *Course Description*

This course will discuss the different types of violence seen in communities across the nation and the world. Acts of violence come in many forms, such as intimate partner violence, teen dating violence, gangs, workplace violence, disasters, wars, human trafficking, and many more. The course will examine how individuals and health care workers respond to this violence, and how it affects patients, co-workers and individuals. (Prerequisite: none)

### **APPLYING CULTURAL DIVERSITY IN HEALTH AND ILLNESS (SOC1324)**

3 semester hours

#### *Course Description*

This course will increase awareness of the issues and concerns of the delivery of health care among minority and underserved populations. Students will explore the effects of culture on the perception of health and illness by individuals and society. This course will increase awareness of personal responsibility in the development of relationships among others in the field. Field experience and research are required. (Prerequisite: Cultural Study course or permission of instructor)

# CURRICULUM & COURSES

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## COMMUNICATION

### **PUBLIC AND INTERPERSONAL COMMUNICATION (COMM103)**

3 semester hours

This course provides a study of interpersonal, small group and public communication. Topics include verbal and non-verbal communication, listening and feedback, and conflict management. Students will practice these principles through presentations, discussions, and critiques to develop effective communication skills when providing information to and interacting with individuals and groups. (Prerequisite: none)

### **PUBLIC SPEAKING (COMM104)**

3 semester hours

#### *Course Description*

This course provides both theoretical basis and practical instruction for speaking effectively in public. It emphasizes basic speech skills, topic selection, audience analysis, speech preparation and organization, research, strategic and creative language use, effective listening and delivery skills. Students will have the opportunity to develop their skills in public speaking by participating in several speech presentations. (Prerequisite: none)

### **INTRODUCTION TO HEALTH COMMUNICATION (COMM105)**

3 semester hours

#### *Course Description*

This course is designed to provide students with an introductory understanding of the theory and practice of health communication, including interpersonal and public communication in healthcare settings. The course will cover provider-patient communication, organizational communication in health delivery systems, community/consumer health communications, and communication training for healthcare professionals in public and interpersonal arenas. (Prerequisite: none)

# CURRICULUM & COURSES

## HUMANITIES

### **ART THERAPY (ARTS101)**

3 semester hours

#### *Course Description*

This course provides an introduction to the field of Art Therapy, including the history of this discipline within healthcare and its applications for mental health, special education, rehabilitation, and other populations. (Prerequisite: none)

### **ENGLISH COMPOSITION I (ENGL104)**

3 semester hours

#### *Course Description*

This course includes a study of grammar and the fundamental principles of formal academic writing to assist the student to communicate effectively in written format. Quality academic standards of writing will include clarity and grammatical correctness of expression, neatness, accuracy of spelling, and adherence to designated writing form and style. American Psychiatric Association (APA) format is the primary style for writing academic papers in this course. Experiences will be provided to apply writing principles and APA format. (Prerequisite: none)

### **CREATIVE NONFICTION FOR THE HEALTHCARE PROVIDER (ENGL213)**

3 semester hours

#### *Course Description*

This course will teach students about techniques and structures of creative nonfiction. Reading and writing will focus on personal essays, memoir, journaling, literary journalism, and other subgenres with an emphasis on ways that creative treatment of nonfiction topics can aid healthcare providers in their professional and personal lives. (Prerequisite: none)

### **WOMEN'S LITERATURE (ENGL216)**

3 semester hours

#### *Course Description*

Introduction to various forms in English by women of diverse cultural, political, historical, and economic backgrounds from the 19th century to present.

### **LITERATURE OF HEALTHCARE (ENGL315)**

3 semester hours

#### *Course Description*

This course examines literature as a means of expressing and understanding healthcare issues, concerns, innovations, and anxieties. Focusing on the intersection between practice and art, this course explores fiction and nonfiction, poetry, memoir, and other forms of literature relating to healthcare fields, professions, and experiences. Literature by and for healthcare professionals will be studied alongside texts written by lay authors that explore healthcare from the patient's perspective. (Prerequisite: none)

### **FILM STUDIES: IMAGES OF HEALTHCARE (FILM100)**

3 semester hours

#### *Course Description*

This course provides an introductory overview of Film Studies, including the study of film genre, development of narrative conventions, and connections between image and meaning. Examples will be chosen

from films that focus on themes related to health care, although concepts related to film and media studies will be stressed. (Prerequisite: none)

### **INTRODUCTION TO HUMANITIES (HUMS101)**

3 semester hours

Survey course focusing on art, music, theatre, film, dance, architecture, and philosophy to examine humanistic traditions developed to reawaken our sense of wonder and curiosity about the meaning of life. Students will examine and integrate central concepts from said disciplines into their scope of practice with the human condition.

### **ACADEMIC TRAVEL ABROAD (INTL202-2 OR INTL202-3)**

2 or 3 semester hours

The Academic Travel Abroad is a team-taught, variable-credit course that satisfies 2-3 hours of general education credit. It offers a first-hand introduction to the history, arts, and healthcare systems of other cultures, including at least one hospital tour for students to interact with providers and educators from another system. The course may include more than one culture and may be repeated as different cultures are visited.

### **MUSIC THERAPY (MUSC100)**

3 semester hours

#### *Course Description*

This course provides an overview of the field of Music Therapy, including a historical review of its origins as a healing practice. The course will examine practical applications of Music Therapy in healthcare settings and the ethical considerations that accompany these applications. Field experiences will be included. (Prerequisite: none)

### **ETHICS IN HEALTHCARE (PHIL210)**

3 semester hours

#### *Course Description*

This course serves as an introduction to the study of ethics and focuses on the specific areas of ethical importance to healthcare. Its purposes are to help the student confront ethical problems in a reflective and analytical manner and to encourage the student to think about his or her own position on various issues. The student will be encouraged to apply the course content to his or her professional practice. (Prerequisite: none)

### **COMPARATIVE RELIGION (RELI215)**

3 semester hours

#### *Course Description*

This course will survey several of the world's religions from a variety of perspectives: historically, culturally, critically, as well as ideologically. The subjective nature of student's personal perspectives will also be examined as it informs one's individual and corporate responses to religions other than one's own. In addition, the practical considerations facing healthcare in an increasingly faith-diverse population will be examined. (Prerequisite: none)

# CURRICULUM & COURSES

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## HUMANITIES

### **CHRISTIAN SPIRITUALITY AND HEALING (RELI316)**

3 semester hours

#### *Course Description*

This course will provide an overview of Christian spirituality with a focus on the relationship between spirituality and healing. The course will explore connections between spiritual and physical health and wellness through group study, discussion, and personal reflection. Scripture, early church writings, and contemporary Christian resources will serve as the basis for discussion. The course will include an exploration of such practices as healing prayer, meditation, and personal discernment. (Prerequisite: none)

### **SIGN LANGUAGE FOR HEALTHCARE PROVIDERS (SIGN111)**

3 semester hours

#### *Course Description*

This introductory sign language course is designed to teach healthcare providers how to communicate using sign language. This course is for the person who wants to start at the very beginning and develop basic receptive and expressive language skills to communicate within the Deaf culture. No prior experience is necessary. (Prerequisite: none)

### **SPANISH FOR HEALTHCARE PROVIDERS (SPAN211)**

3 semester hours

#### *Course Description*

This elementary Spanish class is a class designed specifically for healthcare professionals. It is a student oriented class that covers not only key grammatical topics, but also cultural aspects of Spanish speaking people and their nations. The concepts, topics, and cultural information are presented in context. The student will be introduced to basic vocabulary and grammatical instructions that will enable them to talk about themselves, their families, preferences, needs and interests in the present tense; and to narrate very simple events that took place in the past. Students will practice talking about a variety of common interests (such as household and medical objects, nationalities, days of the week, clothing, weather, etc.), greeting and introducing themselves, and handling basic social situations and routine needs (asking for information, making appointments, asking for prices and phone numbers, etc). In addition, the student will be exposed to anatomical diagrams of the body systems and information that will specifically help them function in the healthcare setting both here and abroad. (Prerequisite: none)

### **INTERMEDIATE SPANISH (SPAN215)**

3 semester hours

#### *Course Description*

Designed for students who have existing knowledge of the Spanish language and culture, this course focuses on grammar, reading, writing, listening, and speaking with an introduction to cultural and literary readings. (Prerequisite: Spanish for the Healthcare Provider OR successful completion of four years of high school Spanish OR instructor permission)

# CURRICULUM & COURSES

## BUSINESS & MANAGEMENT

### **HEALTHCARE ECONOMICS (ECON404/704)**

3 semester hours

#### *Course Description*

This course introduces the student to basic principles of healthcare economics including supply and demand, product markets, employment, payor and price systems, and impact of government or regulatory agencies. Basic principles of economics will be applied to topics of healthcare costs, access, and payment for service. (Prerequisite: none)

### **INTRODUCTION TO HEALTHCARE MANAGEMENT (MGMT100)**

3 semester hours

#### *Course Description*

This introductory course is designed for nursing and health professions students, health care professionals, and individuals interested in career opportunities in the healthcare industry. The course will serve as an overview of Management principles and concepts as applied to health service organizations. (Prerequisite: none)

### **PRINCIPLES OF LEADERSHIP (MGMT201)**

3 semester hours

#### *Course Description*

This course provides an introduction to leadership theory and practice. The course examines leadership functions of management, including development of leadership, motivational theory, self reflection, and group process. Leadership styles and their relationship to particular circumstances will be analyzed. (Prerequisite: none)

### **MANAGEMENT THEORY, CONCEPTS AND SKILLS (MGMT 401/701)**

3 semester hours

#### *Course Description*

This course is designed for healthcare professionals desiring to advance into a management position or to broaden their understanding of the theories, concepts and skills essential to becoming an effective manager in a healthcare setting. The course will explore such topics as management theories, leadership styles and skills, organizational behavior and communication, group dynamics, relationship building, change theory and quality improvement. (Prerequisite: none)

### **HUMAN RESOURCE MANAGEMENT (MGMT 402/702)**

3 semester hours

#### *Course Description*

This course explores issues common to managing human resources in a healthcare setting. Such topics as employee relations, recruiting/interviewing/hiring, coaching/disciplining/terminating, performance appraisal, conflict resolution, motivation, benefits and labor laws will be discussed. (Prerequisite: none)

### **HEALTHCARE FINANCE AND BUDGETING (MGMT403/703)**

3 semester hours

#### *Course Description*

This course is designed to develop a basic understanding of finance and budgeting in a

healthcare setting. The course will explore such topics as basic accounting principles, preparation and management of capital and operational budgets, cost analysis and management, resource management, and strategic planning/forecasting. (Prerequisite: none)

### **LEGAL ISSUES OF HEALTHCARE MANAGEMENT (MGMT405/705)**

3 semester hours

#### *Course Description*

This course will examine legal topics in healthcare with a focus on risk management principles and theories guiding healthcare management. Students will come to understand the application of employment law as it applies to healthcare settings. (Prerequisite: Introduction to Healthcare Management or Management Theory, Concepts and Skills)

### **HEALTHCARE MANAGEMENT FIELD EXPERIENCE (MGMT410/710)**

1 semester hour

#### *Course Description*

This course offers the student the opportunity to observe and/or participate in the application of healthcare management principles and skills learned throughout the rest of the curriculum with a manager(s) in a healthcare setting. (Prerequisite: 12 semester hours of healthcare management course work)

# CURRICULUM & COURSES

## HEALTH/RECREATION/PHYSICAL EDUCATION

### **FOUR STEPS TO EFFECTIVE LEARNING (HPER101)**

1 semester hour

#### *Course Description*

This course introduces the basic principles of ontology. The student will learn how to go through difficult times with relative ease. The skill set learned will help the participant in school, career, and life. The first year student will discover what is important to him or her and call upon that knowledge during the academic year. The ontological principles will allow the learner to take action that will reflect what has meaning to him/her—thus establishing a state of coherence. (Prerequisite: none)

### **YOGA (HPER102)**

1 semester hour

#### *Course Description*

Yoga is a seven week course designed to develop students' understanding of the mind, body and spirit balance. Students will learn physical postures and methods designed to increase relaxation, muscular strength, breathing control, and overall health. This course also includes a broad overview of the history and purpose of this exercise technique. (Prerequisite: none)

### **WELLNESS & FITNESS (HPER104)**

1 semester hour

#### *Course Description*

This is a five week course designed to give the student the opportunity to understand the concept of wellness, and recognize the importance of developing a healthy lifestyle with emphasis on health promotion and disease prevention. The student will examine individual and family wellness. Models of risk assessment, behavior change and barriers to achieving health will be explored. Age related health risks will also be addressed. (Prerequisite: none)

### **STRESS MANAGEMENT (HPER106)**

1 semester hour

#### *Course Description*

This is a five week course designed to give students the opportunity to gain an academic understanding of stress and stress management. Students will learn to recognize symptoms of stress and develop strategies for enhancing skills to manage stress in their personal lives as well as in the educational or work setting. Students will learn personal stress and tension control skills using the scholar/practitioner model to analyze health related behavior associated with stress. Personal examples to illustrate various concepts will be used and students will be encouraged to make application of these concepts in their real life settings. (Prerequisite: none)

### **PERSONAL SAFETY (HPER107)**

1 semester hour

#### *Course Description*

Course introduces students to the basic principles of self-defense including awareness and prevention programming. Course additionally offers a hands-on platform for participation in life-saving techniques focusing on other aspects of well being including assertiveness and health.

### **PHYSICAL FITNESS FOR LIFE (HPER200)**

1 semester hour

#### *Course Description*

This is a five-week course designed to give the student the opportunity to understand the need for and the effects of exercise and a healthy lifestyle as it applies to them. Aerobic exercise and cardiovascular fitness will be emphasized. The course will provide an individualized approach to physical activity and teach principles of cardiovascular endurance, body composition, strength, and flexibility. Throughout the course, students will engage in a combination of the personal fitness programs provided below and will be required to complete a reflection or analogous assignment related to this experience.

- Cycling Courses
- Mind/Body Courses, including BodyFlow and Yoga
- Aquatics Courses, including Variety Aquatics and Turbo Mix Aquatics
- Fitness and Aerobics Courses, including Body Pump, Zumba, BodyCombat, and Aerobic Express

(Prerequisite: none)

# CURRICULUM & COURSES

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## GENERAL STUDIES

### **EDUCATING IN THE WORKPLACE (GSTU501)**

1 semester hour

#### *Course Description*

This seminar course engages the student in application of teaching and learning principles in employment and community settings. Students will address practical use of theoretical constructs in a variety of situations such as teaching clients, peers and/or employees. Strategies to enhance effectiveness of teaching and learning based on the needs of the learner, size of the group and nature of the topic will be discussed (Prerequisite: All required 300 level courses)

# CURRICULUM & COURSES

## MINORS

### Minor Requirements

Baccalaureate degree seeking students are eligible to declare a minor in a variety of subject areas. The number of credit hours required may vary depending on the area in which the minor is being sought. A minimum of 12 credit hours in any minor must be earned at BryanLGH College of Health Sciences.

Students wishing to earn a minor must complete the Declaration of Minor form and submit it to the Office of Records and Registration.

### Biomedical Sciences

Students are required to successfully complete 15 credit hours (all taken at BCHS) in any of the following courses:

- Introduction to Epidemiology (BIOS103)
- Immunology (BIOS202)
- Organic Chemistry (CHEM104)
- Computer Simulations in Biomedical Sciences (BIOS301)
- Bioinformatics (BIOS302)
- Advanced Anatomy (BIOS403)
- Advanced Physiology (BIOS502)
- Senior Seminar-Capstone (BIOS401)

### Healthcare Humanities

Students are required to successfully complete 12 credit hours (all taken at BCHS) in any of the following courses:

- Spanish for Healthcare Providers (SPAN211)
- Sign Language for Healthcare Providers (SIGN111)
- Art Therapy (ARTS101)
- Music Therapy (MUSC100)
- Christian Spirituality and Healing (RELI316)
- Film Studies: Images of Healthcare (FILM100)
- Literature of Healthcare (ENGL315)
- Comparative Religion (RELI215)

### Healthcare Management

Students are required to successfully complete 12 credit hours (all taken at BCHS) in the following courses:

- Introduction to Healthcare Management (MGMT100)
- Principles of Leadership (MGMT201)
- Legal Issues in Healthcare Management (MGMT300)
- Healthcare Economics (ECON404)
- Management Theories, Concepts & Skills (MGMT401)
- Human Resource Management (MGMT402)
- Healthcare Finance and Budgeting (MGMT403)

### Social Sciences

Students are required to successfully complete 15 credit hours (12 hours must be taken at BCHS) in any of the following courses

- Global Community: Cultural Diversity & Healthcare (SOCI222)
- Introduction to Sociology (SOCI101)
- Applying Cultural Diversity in Health & Illness (SOCI324)
- Introduction to Psychology (PSYC121)
- Human Growth and Development (PSYC201)
- Abnormal Psychology (PSYC321)
- Healthcare Response to Violence in Society (SOCI323)

### Gerontology

Students are required to successfully complete 15-17 credit hours (12 hours must be taken at BCHS) in any of the following courses:

- Introduction to Gerontology (GERO101)
- Death and Dying (GERO201)
- Physical and Psychological Aspects of Aging (TBD)
- Sociocultural Aspects of Aging (TBD)
- Economics of Aging (TBD)
- Gerontology Internship (2-4 credits) (TBD)

### Completion of a Minor Following Graduation

BryanLGH College of Health Sciences offers minors that enable a student to pursue in-depth education in a second discipline that supports and enhances the primary field of study.

BryanLGH College of Health Sciences will award a minor following graduation provided the courses needed to fulfill the minor are taken at BryanLGH College of Health Sciences. At the time of graduation, the student must have met all curricular requirements for the major and fulfilled all graduation obligations to the institution.

Courses in the minor must be taken for a grade, not P/F. The grade point for those courses must be at least 2.0. The student's transcript will reflect the completion of the minor once the coursework has been completed.

# CURRICULUM & COURSES

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## OTHER REQUIREMENTS

### **Computer Skills**

Recommended computer skills include principles of general computer usage, ability to utilize interactive computer software, word processing, databases and spreadsheets, internet and electronic mail. Students who do not possess these skills should take a computer course or seek other types of assistance to increase their skill.

### **Computer Access**

The College utilizes the ANGEL Learning Management System, a web-based teaching and learning tool. Students are encouraged to have home computers with high-speed internet access to facilitate completion of course requirements. The computer laboratory can also be utilized to access ANGEL.

- The following recommendations are made for personal computer capabilities: Windows XP or later operating system (PC)
- OSX (Mac)
- 2.0 GHz Intel Pentium processor minimum and Intel Core 2 Duo (2.2 GHz or higher) recommended
- 1GB RAM minimum and 2 GB or higher recommended
- Storage—40 GB or more
- Sound card/CD-ROM/printer
- 56kbps modem/Broadband required
- Speakers/headset/microphone
- JavaScript and cookies must be enabled (free download)
- Microsoft Internet Explorer 7.0 or later browser
- Mozilla Firefox 3.0 or later browser (free download)
- Microsoft Office Student Edition or higher
- Adobe Acrobat Reader (free download)
- QuickTime Player (free download)
- Flash Player (free download)
- Windows Media Player (free download)

### **Math Competency**

Nursing (except RN to BSN) and health professions students are required to take the Test for Essential Academic Skills (TEAS). Each student must obtain a 60% in each of the math sections: numbers and operations; measurement (metric conversions); data interpretation and algebra. Students scoring less than 60% on the Adjusted Individual Score for any math application will be required to complete math remediation for that math application. Students scoring less than 60% on two or more math applications will be required to enroll in MATH104: Math Strengthening. All math remediation must be completed prior to taking other required math courses for the major.

Students not meeting at least one of the criterion above will be scheduled to take the COMPASS math section prior to their enrollment date.

### **Basic Nursing Assistant or Equivalent**

A Basic Nursing Assistant course or basic Patient Care course with a clinical component is required prior to

the first clinical course for students pursuing a health professions degree and prior to NURS202: Foundations of Nursing Practice for students pursuing a nursing degree.

### **Community Service (Health Professions)**

Students must complete 15 hours of community service in the associate degree programs and 30 hours of community service in the bachelor's degree program while attending BryanLGH College of Health Sciences. At least five of these hours must include BryanLGH College of Health Sciences activities. The student must obtain faculty approval of the service activity prior to its completion in order to apply the hours toward the requirement.

### **CPR for the Healthcare Provider**

Students are required to have completed a Basic Life Support (BLS)/Cardiopulmonary Resuscitation (CPR) for the Healthcare Provider course prior to beginning clinical experiences. Students are responsible for maintaining their CPR certification throughout the program. Acceptable courses are: American Heart Association (AHA) for the Healthcare Provider or American Red Cross (ARC) Professional Rescuer/AED. Students are required to provide proof of course completion prior to beginning any clinical experience. Students will not be allowed to continue clinical experiences until a current BLS/CPR card is obtained.

# CURRICULUM & COURSES

## SCHOOL OF NURSING

### **School of Nursing Philosophy**

The faculty of BryanLGH College of Health Sciences, School of Nursing, believes that:

Nursing is an art and a science: the embodiment of caring. It consists of a unique, integrated body of knowledge and requires critical thinking, decision making and problem solving skills. Nursing addresses holistic human responses to varied levels of health in a variety of settings, and is concerned with illness prevention, health promotion and health maintenance. Nurses actively collaborate with other healthcare professionals to promote safe holistic care of their clients. They provide care to individuals, families, groups and communities. Nursing requires commitment and responsibility to society and to the profession.

The individual is a unique and multidimensional being with inherent worth and dignity. Individuals interact with the environment in a dynamic process which requires change over time. Individuals have the capacity to care, to learn, and to change. They have the right to determine and participate in activities that affect their health status, and therefore are responsible for their own actions.

Environment is both internal and external. The internal environment is unique to the individual. The external environment is global, geopolitical, cultural and technical. The relationship between the individual and the environment is both dynamic and reciprocal.

Health is a dynamic state influenced by heredity, the environment and the individual's lifestyle. The state of health is reflected within an individual's physical, psychological, spiritual, developmental and sociocultural dimensions. Individuals, families and communities differ in how health is perceived and valued, and have the right to define their own health. The pursuit of health is the right and responsibility of each individual.

Learning is a life-long, interactive process that builds on previous experience and ideally results in change in attitudes, beliefs and/or behaviors. Learning occurs in a variety of environments, and involves the cognitive, affective and psychomotor domains. Professional nursing education is built on an integrated study of the natural sciences, social sciences and humanities in order to promote critical thinking, caring, respect and concern for individuals, families, communities and societies. This integrated program of nursing science and General Education is designed to develop an appreciation for the arts and sciences. This contributes to an individual's understanding of and participation in society as a whole. The nursing major provides a theoretical base concurrent with practice in a variety of settings, and prepares a nurse generalist. Baccalaureate education provides the foundation for graduate education and advanced practice and expands an individual's perspectives on life, attitudes, values and beliefs.

The faculty are responsible as role models, mentors and teachers for providing a caring environment in which students are free to explore and develop personally, professionally and intellectually. The College provides a full range of nursing activities within the multiple contexts of legal and ethical boundaries, political and economic forces, sociocultural influences, and spiritual and historical factors. This environment will provide quality education which develops critical thinking and nursing competence. A graduate of the College will possess the ability to integrate theories, concepts, and research findings into nursing practice, shaping the future of nursing and meeting the emerging healthcare needs of society.

### **Nursing Curriculum Objectives**

In order to implement the goals of the College, the faculty plan the curriculum so that upon completion of the program of studies the student will:

1. CURRICULUM OBJECTIVE #1 FOR MAJOR CONCEPT -NURSING: Assume the position of professional nurse through enactment of nursing roles, demonstration of professional behavior and practice, and implementation of nursing care congruent with current nursing practice.
2. CURRICULUM OBJECTIVE #2 FOR MAJOR CONCEPT -CLIENT: Provide holistic nursing care that emphasizes interrelatedness of the physiological, spiritual, psychological, sociocultural and developmental dimensions.
3. CURRICULUM OBJECTIVE #3 FOR MAJOR CONCEPT -PROCESS: Integrate the processes of critical thinking, nursing process, nursing research, leadership/management, learning, communication and ethics into the practice of professional nursing.
4. CURRICULUM OBJECTIVE #4 FOR MAJOR CONCEPT -HEALTH: Promote optimal health through analysis of responses to events and nursing interventions.
5. CURRICULUM OBJECTIVE #5 FOR MAJOR CONCEPT -CARING: Operationalize caring through self-development and interaction with individuals, families, communities and healthcare professionals.
6. CURRICULUM OBJECTIVE #6 FOR MAJOR CONCEPT -ENVIRONMENT: Integrate knowledge of the reciprocal relationship of environment, health status and healthcare delivery.

# CURRICULUM & COURSES

## SCHOOL OF NURSING

### Bachelor of Science in Nursing

Our program prepares graduates as entry-level nurse generalists. Graduates are eligible to file an application to take the National Council Licensing Examination for attainment of professional licensure as a registered nurse.

The curriculum is designed to be completed in four years of study consisting of eight semesters and two summer sessions. Nursing students become formally matriculated into the School of Nursing upon successful completion of all requirements to begin the third semester.

### Requirements for graduation

Bachelor of Science in Nursing Degree:  
128 credit hours

Attainment of the degree requires satisfactory completion of 128 semester hours of credit. These

hours are equally divided between the nursing major and other academic study.

A total of 64 semester hours of academic studies outside the nursing major is required. Of the 64 semester hours of non-nursing academic study, 58 semester hours are specifically designated General Education studies in the areas of natural sciences, social sciences, humanities, mathematics, business/management and health/recreation/physical education. The remaining six semester hours are non-nursing electives. A minimum 2.0 grade point average (4.0 system) is required in each non-nursing course.

A total of 64 semester hours of credit in the nursing major is required. A minimum of 2.5 grade point average (4.0 system) is required in each nursing course.

### Sample Plan of Study

■ Nursing Courses      ● General Education courses

<b>LEVEL I -Freshman Year</b>			
SEMESTER I	HOURS	SEMESTER II	HOURS
● Anatomy and Physiology I	4	● Anatomy and Physiology II	4
● Chemistry	4	● Microbiology	4
● English Composition I	3	● Introductory Psychology	3
● Introduction to Sociology	3	● Nutrition	3
■ Introduction to the BryanLGH College of Health Sciences Experience	2	● Math for Healthcare Providers	2
		■ Introduction to Nursing and Healthcare	1
<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>	<b>17</b>
<b>LEVEL II -Sophomore Year</b>			
SEMESTER III	HOURS	SEMESTER IV	HOURS
● Pathophysiology	3	● Cultural Study	3
● Human Growth and Development	3	● Speech	3
● Language	3	● Health/Rec/PE Elective	1
■ Foundations of Nursing Practice	4	■ Pharmacology	2
■ Health Assessment Across the Life Span	3	■ Nursing Care I	6
<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>	<b>15</b>
<b>SUMMER</b>	<b>HOURS</b>		
■ Level II Nursing Practicum	2		
<b>LEVEL III -Junior Year</b>			
SEMESTER V	HOURS	SEMESTER VI	HOURS
● Ethics/Bioethics	3	● Humanities Elective	3
● Elements of Statistics	3	■ Nursing Care III	6
■ Nursing Care II	6	■ Family Health Nursing	5
■ Psychiatric Nursing	5	■ Evidenced Based Practice and Research For Nurses	2
<b>TOTAL</b>	<b>17</b>	<b>TOTAL</b>	<b>16</b>
<b>LEVEL IV -Senior Year</b>			
SEMESTER VII	HOURS	SEMESTER VIII	HOURS
● Healthcare Economics	3	● Non-Nursing Elective	3
● Non-Nursing Elective	3	■ Issues & Trends in Professional Nursing	2
■ Nursing Care IV	5	■ Preparation for Licensure	1
■ Community Nursing	5	■ Nursing Management	3
		■ Level IV Nursing Capstone Practicum	4
<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>	<b>14</b>

1 credit hour theory = 15 contact hours

1 credit hour clinical = 45 contact hours

# CURRICULUM & COURSES

## SCHOOL OF NURSING

### **NURSING TRANSITION (NURS001)**

1 semester hour

#### *Course Description*

This course assists the student to successfully reintegrate into nursing courses with a clinical component. This course must be completed successfully before returning to clinical nursing courses. This credit does not apply to graduation requirements. (Prerequisite: Foundations of Nursing Practice and Health Assessment Across the Life Span)

### **INTRODUCTION TO THE BRYANLGH COLLEGE OF HEALTH SCIENCES (BCHS) EXPERIENCE (NURS100)**

2 semester hours

#### *Course Description*

This interdisciplinary course introduces all incoming students to the culture and expectations of BryanLGH College of Health Sciences. The curriculum will integrate General Education concepts into healthcare professional education while exploring academic integrity, college-level research, professional communication, and the importance of lifelong learning. The course will also cover responsibilities of clinical practice in the health care setting, including HIPAA regulations and cultural awareness. Additional concepts such as APA documentation, classroom etiquette, and time management will also be reviewed. (Prerequisite: completion of ATI TEAS)

### **INTRODUCTION TO NURSING AND HEALTHCARE (NURS101)**

1 semester hour

#### *Course Description*

This course is designed to introduce the student to the profession of nursing. The evolving nature of healthcare delivery, the various roles nurses assume in the healthcare environment, and relationships with other healthcare professionals are explored. (Prerequisite: acceptance into nursing major)

### **FOUNDATIONS OF NURSING PRACTICE (NURS202)**

4 semester hours  
(3 hr theory, 1hr clinical)

#### *Course Description*

The practice of nursing is examined with an introduction to the concepts included in the curriculum's conceptual framework. Content on principles of health, communication skills, multidimensional view of humans, basic care principles, and psychomotor skills provide the student with a foundation for clinical practice. Clinical activities provide the student opportunity to perform psychomotor skills. (Prerequisites: English Composition, Anatomy and Physiology, Microbiology, CPR for the Healthcare Provider, Certified Nursing Assistant or Equivalent, Introduction to Nursing and Healthcare, Math for the Healthcare Provider. Completion of pathophysiology or concurrent enrollment. Concurrent enrollment must begin with the start of the BryanLGH semester.)

### **HEALTH ASSESSMENT ACROSS THE LIFE SPAN (NURS205)**

3 semester hours  
(2hr theory, 1hr skills laboratory)

#### *Course Description*

This course introduces the student to the interview process, health assessment and physical examination techniques. Emphasis is placed on normal findings, how to differentiate between normal and abnormal findings, recognition of common health problems, and age specific assessments. (Prerequisite: Anatomy and Physiology)

### **NURSING CARE I (NURS211)**

6 semester hours  
(3hr theory, 3hr clinical)

#### *Course Description*

This course introduces the student to general nursing care of individuals across the life span. Content addresses the nurse's role in the context of acute and chronic illness. Inpatient hospital and long-term care experiences are provided. (Prerequisites: Foundations of Nursing Practice, Health Assessment Across the Life Span, Human Growth and Development, Chemistry, Pathophysiology, and Introduction to the BCHS Healthcare Experience. Pharmacology concurrent or prerequisite)

### **PHARMACOLOGY (NURS212)**

2 semester hours

#### *Course Description*

This course introduces the student to principles of pharmacotherapeutics, drug classifications, pharmacological action, implications, and drug calculations. Emphasis is placed on the healthcare provider's role in drug administration and patient teaching. This course provides a foundation for safe administration and monitoring of medications. (Prerequisites: Anatomy and Physiology, Pathophysiology concurrent or prerequisite)

### **LEVEL II NURSING PRACTICUM (NURS220)**

2 semester hours  
(2hr clinical)

#### *Course Description*

This clinical nursing course is designed to assist the student in integrating knowledge and skills obtained during Level II. Clinical experiences in acute care settings provide students with the opportunity to expand critical thinking, organization, health assessment, and basic nursing care skills. Repeated experiences with clients promote pattern recognition and development of individual competence. (Prerequisites: Nursing Care I, Pharmacology)

# CURRICULUM & COURSES

## SCHOOL OF NURSING

### **NURSING CARE II (NURS301)**

6 semester hours  
(3hr theory, 3hr clinical)

#### *Course Description*

This course expands on the student's knowledge of general nursing care of individuals across the life span to address healthcare needs of increased complexity. Students explore healthcare issues and needs of children, adults, and older adults. Content is organized to address the nurse's role in health promotion, illness prevention, and health maintenance for increasingly complex patient situations. Acute care and community care clinical experiences are provided. (Prerequisites: Nursing Care I, Pharmacology)

### **PSYCHIATRIC NURSING (NURS303)**

5 semester hours  
(3hr theory, 2hr clinical)

#### *Course Description*

This course introduces the student to theoretical foundations, perspectives, and contemporary issues in psychiatric nursing. Emphasis is placed on the psychological dimension of the individual. Students provide care to individuals with altered self-concept in a variety of inpatient, outpatient, and community-based settings. (Prerequisites: Nursing Care I, Pharmacology, Introductory Psychology)

**NURSING CARE III (NURS311)** 6 semester hours  
(3hr theory, 3hr clinical)

#### *Course Description*

This course focuses on the provision of nursing care for the critically ill client and/or those with complex needs. The student will address the complex and critical health care needs of children, adults and older adults. Students will care for clients with multisystem health care needs in a Progressive Care and Critical Care environment. Pediatric and Emergency Room clinicals are provided. This course also allows the students to deliver nursing care in a rural hospital setting. (Prerequisites: Nursing Care II, Level II Nursing Practicum, Psychiatric Nursing)

**NURSING CARE III (NURS316)** 6 semester hours  
(3hr theory, 3hr clinical)

#### *Course Description*

This course focuses on the provision of nursing care for the critically ill client and/or those with complex needs. The student will address the complex and critical health care needs of children, adults and older adults. Students will care for clients with multisystem health care needs in a Progressive Care and Critical Care environment. Pediatric and Emergency Room clinicals are provided. This course also allows the students to deliver nursing care in a rural hospital setting. (Prerequisites: Nursing Care II, Level II Nursing Practicum, Psychiatric Nursing)

### **EVIDENCE BASED PRACTICE AND RESEARCH FOR NURSES (NURS313)**

2 semester hours

#### *Course Description*

This course introduces the student to research processes and evidenced based practice principles used in nursing. Emphasis is placed on identification and clarity of research questions, information

literacy, recognition of professional steps in nursing research, ethical consideration, appraisal and interpretation of research articles, systematic inquiry, and integration of research findings into nursing care delivery. (Prerequisites: Nursing Care I, Statistics)

### **FAMILY HEALTH NURSING (NURS314)**

5 semester hours  
(3hr theory, 2hr clinical)

#### *Course Description*

This course introduces the student to family concepts and theories during the childbearing and childrearing stages of the life cycle. Students receive clinical experience in antepartum, intrapartum, postpartum, nursery, and pediatric both in the hospital and in the community. (Prerequisites: Nursing Care II, Psychiatric Nursing and Level II Nursing Practicum)

### **TRANSITION TO BACCALAUREATE EDUCATION (NURS331)**

3 semester hours

#### *Course Description*

This course is designed to introduce the registered nurse to the philosophy of baccalaureate education. This course will promote integration and synthesis of General Education experiences into the nursing major. Concepts and processes integral to current nursing practice are explored. (Prerequisites: Completed a primary RN program and have an active, unrestricted Nebraska RN license.)

### **NURSING MANAGEMENT (NURS401)**

3 semester hours  
(2hr theory, 1hr clinical)

#### *Course Description*

This course introduces the student to basic management principles such as supervising staff and directing nursing care. This course also includes recruiting, orienting, and scheduling staff; financial management including budgeting and cost containment; and total quality improvement and outcome measurement. The student will be assigned to work with a nurse manager in a variety of practice settings to begin integration of management principles into nursing practice. (Prerequisites: Nursing Care III, Psychiatric Nursing, Evidence Based Practice and Research for Nurses) (RN-BSN prerequisites: Evidence Based Practice and Research for Nurses prior or concurrent)

### **COMMUNITY HEALTH NURSING (NURS402)**

5 semester hours  
(2hr theory, 3hr clinical)

#### *Course Description*

This course expands on concepts of community health and introduces the student to public health nursing. Students will focus on health promotion and illness prevention by working with assigned individuals and community groups. (Prerequisites: Nursing Care III, Psychiatric Nursing, Family Health Nursing, Research in Nursing, Cultural Study) (RN-BSN prerequisites: Cultural Study; Evidence Based Practice and Research for Nurses)

# CURRICULUM & COURSES

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## SCHOOL OF NURSING

### **NURSING CARE IV (NURS403)**

5 semester hours  
(3 hr theory, 2 hr clinical)

Management or concurrent enrollment; completion of  
Community Health Nursing or concurrent enrollment)

#### *Course Description*

This course assists the student in integrating knowledge and skills obtained throughout the curriculum to provide holistic client care. Emphasis is placed on evaluating health care issues as clients transition through various levels of care. Clinical experiences in acute care, long term care, rehabilitation, and community sites are provided. (Prerequisites: Nursing Care III, Family Health Nursing, Evidence Based Practice and Research for Nurses)

### **ISSUES AND TRENDS IN PROFESSIONAL NURSING (NURS411)**

2 semester hours

#### *Course Description*

This course examines current issues and trends in nursing practice and explores anticipated future developments based on changes in the healthcare environment. Included are political, ethical, legal, and historical issues related to the delivery of healthcare. (Prerequisites: Completion of Level III nursing courses) (RN-BSN prerequisites: Transition to Baccalaureate Education, completion of Level III Nursing Courses or concurrent enrollment, permission of instructor)

### **PREPARATION FOR LICENSURE (NURS412)**

1 semester hour

#### *Course Description*

This course is designed to prepare the student for the National Council Licensure Examination for Registered Nurses. In addition to review of nursing concepts, students will also implement testing principles and evaluate their knowledge base through computerized simulation testing. (Final Semester)

### **LEVEL IV NURSING CAPSTONE PRACTICUM (NURS421)**

4 semester hours  
(4hr clinical)

#### *Course Description*

This senior level nursing course is designed to assist the student to synthesize nursing knowledge and skills obtained during the program. Clinical experiences can be in a variety of settings based upon individual student goals. The student will select a practice area in which he/she desires to develop increased competence. The student will work with an assigned faculty or preceptor based on practice area selected. This course is designed to provide the student the opportunity to apply the theoretical foundations and clinical knowledge of nursing science to a student-directed, faculty facilitated scholarly project of the student's choice. It is a scholarly project involving independent inquiry, creativity, and innovation which culminate into an open forum presentation for the project. The course is designed to demonstrate the student's attainment of assessment outcomes of the College. (Prerequisites: Completion of Level III Nursing Courses, Nursing Management, Community Health Nursing) (RN-BSN requirement: Enrollment in final semester of Nursing Courses; completion of Nursing

# CURRICULUM & COURSES

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SCHOOL OF NURSING

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# CURRICULUM & COURSES

## SCHOOL OF NURSING

### **RN-BSN Completion Option**

As a nurse, you have a wonderful yet challenging opportunity to make a difference in someone's life. By advancing your education to completion of a bachelor's degree in nursing, you open your career to additional opportunities. At the BryanLGH College of Health Sciences RN to BSN Completion Option your hard work and skills as a registered nurse are recognized and rewarded to fast track attainment of your degree.

The BryanLGH College of Health Sciences RN to BSN Completion Program offers many advantages: Credit for prior learning and nursing experience; individualized based on your personal experience; convenient schedule is completed at your own pace to allow you to continue family life and a professional career; hybrid format involving a mix of face-to-face on campus sessions, independent study assignments, and online learning assignments; and high quality faculty and facilities to expand your nursing perspectives. The Program consists of 64 credit hours of nursing courses and 64 credit hours of General Education courses.

As a registered nurse, you'll receive 36 credit hours toward the required 64 nursing major credit hours, plus the opportunity to use your clinical practice experience in the workplace toward the remaining 28 nursing major credit hours. A minimum of 6 nursing courses must be completed at BryanLGH College of Health Sciences. College transcripts will be reviewed to determine General Education requirements you have met that can be applied toward the General Education credit hour requirement. A faculty member will meet with you to identify General Education courses you need to complete your degree.

### **RN-BSN Curriculum Plan**

***Basic Nursing Education (Associate Degree or Diploma) granted 36 hours of credit.***

<b>Courses</b>	<b>Semester Credits</b>
Transition to Baccalaureate Education .....	4
Health Assessment .....	3
Evidenced Based Practice and Research for Nursing ..	2
Nursing Management.....	3
Community Health Nursing .....	5
Issues and Trends in Nursing.....	2
Nursing Care IV .....	5
Level IV Practicum .....	4
	<u>28 semester hours</u>

Students who have clinical practice experience in the workplace can apply for portfolio validation toward the above 28 nursing credit hours. During this process, your workplace experience will be evaluated to determine if you have applied the necessary concepts to meet the clinical objectives of the course. Portfolio validation of clinical credit will be completed in the semester the student is registered for the course.

Each individual who applies is evaluated in terms of the following criteria:

- Graduation from an accredited diploma or associate degree nursing program.
- Active, unrestricted, Nebraska RN license.
- Employment history.
- Official college transcripts from all institutions attended.
- Personal, professional or educational references.

### **Application Procedure**

Students must apply and be accepted at BryanLGH College of Health Sciences. Students are encouraged to meet with the BryanLGH College of Health Sciences academic advisor to discuss availability of General Education courses, development of an academic plan for registration and sequencing of courses.

# CURRICULUM & COURSES

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## SCHOOL OF HEALTH PROFESSIONS

### **SCHOOL OF HEALTH PROFESSIONS PHILOSOPHY**

The faculty of BryanLGH College of Health Sciences School of Health Professions believes that:

Health professions encompass a wide range of diverse careers which contribute directly and indirectly to the delivery of quality healthcare and services through promotion of interdisciplinary communication, support and collaboration with a variety of health-care providers. Health professions incorporate both art and science, and integrate theory with practice. The professions require highly specialized skills, critical thinking, decision making, problem solving, integrity, teamwork and respect.

Health professionals actively collaborate with physicians and other health professionals to support health promotion and maintenance and illness prevention, and provide a culture of safety which involves safe practice, commitment, accountability and responsibility to clients, society and the profession. Health professionals are guided by legal and ethical standards, and require communication and interpersonal skills which promote holistic, caring interaction with the clients and other health professionals.

The client as an individual is a unique and multidimensional being with inherent worth and dignity. Individuals interact in a dynamic process within an ever changing environment. Individuals have the capacity to care, to learn and to change. They have the right to determine and participate in activities that affect their health status and are, therefore, responsible for their own actions.

The environment is both internal and external. The internal environment is unique to the individual. The external environment is global, geopolitical, cultural and technical. The relationship between the individual and the environment is both dynamic and reciprocal.

Health is a dynamic state influenced by heredity, the environment and the individual's life style. The state of health is reflected within an individual's physical, psychological, spiritual, developmental, and sociocultural dimensions. Individuals differ in how health is perceived and valued, and have the right to define their own health. The pursuit of health is the right and responsibility of each individual.

Educational preparation of the health professional is built on an integrated study of General Education and health professions concepts. Knowledge and skills are developed through didactic and clinical experiences specific to the field of study. The educational experience prepares the graduate to practice in a variety of settings as an entry level health professional.

Learning is a life-long, interactive process that builds on previous experience and ideally results in change

in attitudes, beliefs, and/or behaviors. Learning occurs in a variety of environments, and involves the cognitive, affective and psychomotor domains. The learner is responsible for actively seeking knowledge both independently and under the supervision and guidance of qualified faculty and practitioners.

Faculty are responsible as role models, mentors and teachers for providing a caring environment in which students are free to explore and develop personally, professionally and intellectually. The College provides educational opportunities within the multiple contexts of legal and ethical boundaries, political and economic forces, sociocultural influences, and spiritual and historical factors. This environment provides quality education, which develops critical thinking and technical competence in the field of health professions and contributes to meeting the emerging healthcare needs of society.

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### **ESSENTIAL ABILITIES OF SONOGRAPHERS**

The following are the essential physical, cognitive and behavioral abilities for the student to participate in and successfully complete the sonography programs. These abilities are not conditions of admission. However, they reflect the performance abilities and characteristics necessary for the student to successfully complete program requirements. The applicant must decide if he/she has any limitations that may restrict or interfere with satisfactory performance of any of the required skills and abilities. It is the responsibility of the applicant to meet the standards outlined below, and to request those accommodations that he/she feels are reasonable and necessary to perform the essential functions. All students must be able to meet the performance requirements to progress in and complete the sonography programs. The applicant should consult with the Dean of Health Professions or Program Instructor to discuss any individual circumstance in which he/she may not be able to meet the essential requirements.

### **Physical Strength**

The ability to:

- Lift and carry materials weighing up to 40-50 pounds.
- Push/pull hospital beds; transport patients.
- Lift, transfer and move patients to and from wheelchair, table, stretcher and/or bed.
- Push/pull equipment on wheels weighing up to 400 pounds.
- Stand for up to 50% of a shift (4-5 hours).
- Sit for up to 50% of a shift (4-5 hours).

### **Mobility**

The ability to:

- Support and transfer patients safely from bed to wheelchair, and modify patient position in bed.
- Twist and/or turn to move patients and equipment.
- Move in and out of treatment areas; quickly when necessary.
- Respond to emergency situations in a timely manner.
- Reach equipment and parts of patient's body.
- Reach below waist level to manipulate equipment.
- Maintain scanning positions for long and/or repetitious periods.
- Use elevator and/or stairs.

### **Psychomotor Skills & Dexterity:**

The ability to:

- Create and interpret visual/spatial relationships including multidimensional relationships and the spatial relationships of anatomic structures to images produced.
- Distinguish textures, degrees of firmness, temperature differences, pulse rate, vibrations and strength.
- Maintain steady arm and hand movement.
- Operate and manipulate equipment.

### **Communication**

The ability to:

- Communicate and interpret effectively both verbally and nonverbally (including writing skills).
- Hear and understand patients and staff; assess and monitor patient sounds.
- Interact positively with people from all levels of society, and all ethnic, cultural and religious backgrounds.
- Follow verbal instructions.
- Detect and discriminate between sounds of normal conversation, including through a surgical mask.
- Distinguish a variety of sounds including but not limited to equipment alarms and monitors, Doppler ultrasound, phones, beepers, overhead paging and heart and blood pressure sounds.
- Write legibly.

### **Visual**

The ability to:

- Make accurate observations of patients and environment.
- Read handwritten instructions/orders.
- Read fine print, monitors, and gauges.
- Discriminate color combinations in blacks, grays, and whites, and the color spectrum on both display devices and recorded images (paper and electronic).
- See and discriminate between varieties of equipment visual alarms.
- See and function in dim lighting.

### **Cognitive**

The ability to:

- Apply theory content in the clinical setting.
- Think critically and make appropriate decisions in emergency and non-emergency situations.
- Assimilate pertinent information and report to appropriate healthcare personnel.
- Read and record information accurately.

### **Adaptability:**

The ability to:

- Work accurately and safely under stress.
- Concentrate in distracting situations.
- Adapt quickly to changes in the environment/situation.
- Make timely and appropriate decisions related to seeking supervisory assistance/consultation.
- Respond to feedback appropriately and maturely.
- Follow established policies.

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### **Curriculum Objectives - ADULT CARDIAC SONOGRAPHY**

Upon completion of the adult cardiac sonography program the student will be prepared to:

1. Competently perform as an entry-level cardiovascular technologist in the cognitive, psychomotor and affective learning domains for adult cardiac sonography through demonstration of ethical and professional behavior and practice congruent with standards of practice.
2. Write the American Registry of Diagnostic Medical Sonographers (ARDMS) exams.
3. Interact with clients in a manner that reflects caring and acknowledges the holistic nature of individuals.
4. Provide individual/public education and community service which promotes growth of the health professional and awareness of health professions.
5. Complete quality adult cardiac sonography exams including history taking; machine adjustment and operation; and acquisition of M-mode, 2D and Doppler information.
6. Correlate clinical findings with adult echocardiographic findings.
7. Communicate effectively with physicians and other healthcare providers.

### **Curriculum Objectives - VASCULAR SONOGRAPHY**

Upon completion of the vascular sonography program the student will be prepared to:

1. Competently perform as an entry-level cardiovascular technologist in the cognitive, psychomotor and affective learning domains for vascular sonography through demonstration of ethical and professional behavior and practice congruent with standards of practice.
2. Write the American Registry of Diagnostic Medical Sonographers (ARDMS) exams.
3. Interact with clients in a manner that reflects caring and acknowledges the holistic nature of individuals.
4. Provide individual/public education and community service which promotes growth of the health professional and awareness of health professions.
5. Complete quality vascular ultrasound exams including history taking; machine adjustment and operation; and acquisition of Duplex imaging, Doppler information and indirect instrumentation data.
6. Correlate clinical findings with vascular ultrasound findings.
7. Communicate effectively with physicians and other healthcare providers.

### **Curriculum Objectives - DIAGNOSTIC MEDICAL SONOGRAPHY**

Upon completion of the diagnostic medical sonography program the student will be prepared to:

1. Competently perform as an entry-level diagnostic medical sonographer in the cognitive, psychomotor and affective learning domains for general sonography through demonstration of ethical and professional behavior and practice congruent with standards of practice.
2. Write the American Registry of Diagnostic Medical Sonographers (ARDMS) exams.
3. Interact with clients in a manner that reflects caring and acknowledges the holistic nature of individuals.
4. Provide individual/public education and community service which promotes growth of the health professional and awareness of health professions.
5. Complete quality diagnostic medical sonography exams including history taking; machine adjustment and operation; and acquisition of ultrasound imaging and Doppler information.
6. Correlate clinical findings with diagnostic medical sonographic findings.
7. Communicate effectively with physicians and other healthcare providers.

### **Curriculum Objectives - Healthcare Management Certificate**

**Upon completion of the program the graduate will be able to:**

1. Integrate the theories, concepts and skills of management within the healthcare setting.
2. Manage employees according to established principles and guidelines of human resources management.
3. Practice healthcare management legally and ethically.
4. Recognize the impact of healthcare economics on the healthcare industry and the healthcare consumer.
5. Make appropriate decisions related to healthcare finance and budgeting within the healthcare manager's role.

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### Advanced Placement in Health Professions

Advanced placement in health professions may be available for applicants who have completed specified programs in a healthcare field, e.g., radiologic technology, nuclear medicine, nursing, cardiovascular technology, respiratory therapy, etc. Curriculum plans are developed on an individual basis. Students are required to complete all the courses in the major.

### Prerequisite Courses

Prerequisites to enrolling in the Advanced Placement program in health professions include:

Medical Terminology	1 semester hour (or demonstrated competency)
Anatomy/A&P I (with lab)	4 semester hours
Physiology/A&P II (with lab)	4 semester hours
Pathophysiology (Diagnostic Medical Sonography only)	3 semester hours
Intermediate or College Algebra	3 semester hours
Descriptive or General Physics	4 semester hours
Computer Proficiency	
Current validation of CPR training in CPR for the Healthcare Provider	(prior to enrollment of first clinical course)

### B.S. Degree Completion Option in Health Professions

BryanLGH College of Health Sciences offers an opportunity for graduates of associate degree healthcare programs from regionally accredited colleges or universities to obtain a baccalaureate degree in Health Professions. The curriculum is designed to offer additional general education courses to meet the College requirements for a baccalaureate degree with an emphasis on management courses. The curriculum plan will vary based on course work completed in the associate degree program.

### Graduates of BryanLGH College of Health Sciences

Graduates of BryanLGH College of Health Sciences who have received an associate or bachelor's degree are considered for advanced placement in a health professions program. The official transcript reflects the advanced placement specialty as an additional major. A certificate of completion is awarded upon completion of the program.

### Applicants with a Degree From a College Other Than BryanLGH College of Health Sciences

An applicant who has earned an Associate of Science degree or higher in a healthcare field at a regionally accredited college other than BryanLGH College of Health Sciences may be eligible for advanced placement in a health professions program. General Education requirements for an Associate of Science degree at BryanLGH College of Health Sciences must be met prior to graduation and are identified in the General Education Plan and the curriculum plan for the specific major. An Associate of Science degree is awarded upon completion of the program.

### Applicants without a Degree

Applicants with a certificate of completion or a diploma (non-degree) in a healthcare field will be considered on an individual basis.

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### ADULT CARDIAC SONOGRAPHY

**Associate of Science Degree:** prepares students for careers in adult cardiac sonography.

#### Requirements for Graduation

**Associate of Science Degree:** 84 credit hours  
This program prepares the graduate to utilize ultrasound to perform echocardiograms on adults. Echocardiograms are noninvasive exams that create an image of the heart. These images aid physicians in detecting certain heart conditions. There is a strong emphasis on anatomy and physiology, cardiac hemodynamics and sound physics. Clinical experience is a major component of the program. Graduates of the program meet published requirements by the American Registry of Diagnostic Medical Sonographers (ARDMS) to apply for the registry examination.

#### Other Requirements

Computer Proficiency..... 0

A Basic Nursing Assistant course or basic patient care course with a clinical component is required prior to enrollment in the first clinical course.

CPR Validation -Healthcare Provider..... 0

CPR for the Healthcare Provider is required prior to enrollment in the first clinical course.

Community Service (15 hours prior to graduation) .....0

#### Advanced Placement

Advanced placement in the adult cardiac sonography program may be available for applicants who have completed specified programs in a healthcare field, e.g., radiologic technology, nuclear medicine, nursing, cardiovascular technology, respiratory therapy, etc. Students would be required to complete all the courses in the major and meet general education requirements. Curriculum plans are developed on an individual basis. (See Advanced Placement in Health Professions, page 58.)

The program is designed to be completed in five semesters and two summer sessions (13 weeks).

#### General Education Requirements

Each student must complete 28 hours of general education courses and 56 semester hours in the adult cardiac sonography major. A minimum 2.0 grade point average (4.0 system) is required in each general education course and a minimum 2.5 grade point average (4.0 system) is required in each course in the major.

All General Education courses must be completed with a grade of C or higher and official transcript(s) must be on file prior to enrollment in courses in the major.

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### Sample Curriculum Plan by Semester – Associate of Science Degree: Adult Cardiac Sonography

#### Year 1

Fall (16 weeks)		Spring (16 weeks)		Summer (13 weeks)	
Course	Hours	Course	Hours	Course	Hours
Anatomy & Physiology I (with lab)	4	Anatomy & Physiology II (with lab)	4	CV Physiology	4
Intermediate Algebra*	3	Descriptive Physics (with lab)	4	Physics & Instrumentation	4
Medical Terminology	1	Principles of EKG	2		
Introduction to BCHS Experience	2	Basic Nursing Assistant	0		
English Composition I (APA focus)	3	Public Speaking	3		
Total Hours	13	Total Hours	13	Total Hours	4

\*Math Competency Prerequisite to Intermediate Algebra

#### Year 2

Fall Semester (16 weeks)		Spring Semester (16 weeks)		Summer Term (13 weeks)	
Course	Hours	Course	Hours	Course	Hours
Core I: Adult Cardiac Sonography	8	Core II: Adult Cardiac Sonography	7	Clinical Rotation I: Adult Cardiac Sonography	11
Adult Cardiac Sonography Skills I	1	Adult Cardiac Sonography Skills II	1		
Ethics in Healthcare	3	Adult Cardiac Sonography Clinical Experience	1		
		Global Community: Cultural Diversity & Healthcare	3		
Total Hours	12	Total Hours	12	Total Hours	11

#### Year 3

Fall Semester (16 weeks)	
Course	Hours
Clinical Rotation II: Adult Cardiac Sonography	14
Board Review: Adult Cardiac Sonography	1
Total Hours	15

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### ADULT CARDIAC SONOGRAPHY

**Bachelor of Science Degree:** Prepares students for careers in adult cardiac sonography.

#### Requirements for Graduation

**Bachelor of Science Degree:** 121 credit hours  
This program prepares the graduate to utilize ultrasound to perform echocardiograms on adults. Echocardiograms are noninvasive exams that create an image of the heart. These images aid physicians in detecting certain heart conditions. There is a strong emphasis on anatomy and physiology, cardiac hemodynamics and sound physics. Clinical experience is a major component of the program. Graduates of the program meet published

requirements by the American Registry of Diagnostic Medical Sonographers (ARDMS) to apply for the registry examination.

The program is designed to be completed in seven semesters and three summer sessions (13 weeks).

#### General Education Requirements

Each student must complete 61 hours of general education courses and 60 semester hours in the adult cardiac sonography major. A minimum 2.0 grade point average (4.0 system) is required in each general education course and a minimum 2.5 grade point average (4.0 system) is required in each course in the major.

#### Other Requirements

Computer Proficiency..... 0

A Basic Nursing Assistant course or basic patient care course with a clinical component is required prior to enrollment in the first clinical course.

CPR Validation – Healthcare Provider.....0

CPR for the Healthcare Provider is required prior to enrollment in the first clinical course.

Community Service (30 hours prior to graduation).....0

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### Sample Curriculum Plan by Semester – Bachelor of Science: Adult Cardiac Sonography

#### Year 1

Fall (16 weeks)		Spring (16 weeks)		Summer (13 weeks)	
Course	Hours	Course	Hours	Course	Hours
English Composition (APA focus)	3	Healthcare Management Elective	3	Elective	3
Global Community: Cultural Diversity and Healthcare	3	Anatomy and Physiology I (with lab)	4	Basic Nursing Assistant	0
Intermediate Algebra (or higher)	3	Public Speaking	3		
Natural Science Elective	3	Social Science Elective	3		
Intro to BryanLGH College of Health Sciences Experience	2	Elements of Statistics			
Medical Terminology	1				
Total Hours	15	Total Hours	16	Total Hours	3

#### Year 2

Fall Semester (16 weeks)		Spring Semester (16 weeks)		Summer Term (13 weeks)	
Course	Hours	Course	Hours	Course	Hours
Anatomy and Physiology II (with lab)	4	Descriptive Physics (with lab)	4	Physics & Instrumentation CV Physiology	4
Ethics in Healthcare	3	Principles of EKG	2		4
Humanities Elective	3	Pathophysiology	3		
Healthcare Management Elective	3	Healthcare Management Elective (upper level)	3		
Research in Healthcare	2				
Total Hours	15	Total Hours	12	Total Hours	8

#### Year 3

Fall Semester (16 weeks)		Spring Semester (16 weeks)		Summer Term (13 weeks)	
Course	Hours	Course	Hours	Course	Hours
Core I: Adult Cardiac Sonography	8	Core II: Adult Cardiac Sonography	7	Clinical Rotation I: Adult Cardiac Sonography	11
Adult Cardiac Sonography Skills I	1	Adult Cardiac Sonography Skills II	1		
Healthcare Management Elective ( <i>upper level</i> )	3	Adult Cardiac Sonography Clinical Experience	1		
		Social Science Elective ( <i>upper level</i> )	3		
		Issues & Trends in Health Professions	2		
Total Hours	12	Total Hours	14	Total Hours	11

#### Year 4

Fall Semester (16 weeks)	
Course	Hours
Clinical Rotation II: Adult Cardiac Sonography	14
Board Review: Adult Cardiac Sonography	1
Total Hours	15

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### VASCULAR SONOGRAPHY

#### Associate of Science Degree

Prepares students for careers in vascular sonography.

#### Requirements for Graduation

**Associate of Science Degree:** 84 credit hours

This program prepares the graduate to perform cerebral and peripheral vascular diagnostic evaluations in direct patient care settings. The use of imaging and non-imaging modalities aid the physician in the diagnosis and treatment of a wide variety of disorders affecting the peripheral vascular system, including stroke, peripheral vascular disease and venous abnormalities. There is a strong emphasis on anatomy and physiology, vascular hemodynamics and sound physics. Clinical experience is a major component of the program. Graduates of the program meet published requirements by the American Registry of Diagnostic Medical Sonographers (ARDMS) to apply for the registry examination.

The program is designed to be completed in five semesters and two summer sessions (13weeks).

Each student must complete 28 hours of general education courses and 56 semester hours in the vascular sonography major. A minimum 2.0 grade point average (4.0 system) is required in each general education course and a minimum 2.5 grade point average (4.0 system) is required in each vascular sonography course.

All general education courses must be completed with a grade of C or higher and official transcript(s) must be on file.

#### Other Requirements

Computer Proficiency .....0

A Basic Nursing Assistant course or basic patient care course with a clinical component is required prior to enrollment in the first clinical course.

CPR Validation -Healthcare Provider.....0

CPR for the Healthcare Provider is required prior to enrollment in the first clinical course.

Community Service (15 hours prior to graduation) ..... 0

#### Advanced Placement

Advanced placement in the vascular medical sonography program may be available for applicants who have completed specified programs in a healthcare field, e.g., radiologic technology, nuclear medicine, nursing, cardiovascular technology, respiratory therapy, etc. Students would be required to complete all the courses in the major and meet general education requirements. Curriculum plans are developed on an individual basis. (See Advanced placement in Health Professions, page 58.)

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### Sample Curriculum Plan by Semester – Associate of Science Degree: Vascular Sonography

#### Year 1

Fall (16 weeks)		Spring (16 weeks)		Summer	
Course	Hours	Course	Hours	Course	Hours
Anatomy & Physiology I (with lab)	4	Anatomy & Physiology II (with lab)	4	Physics and Instrumentation (13 weeks)	4
Intermediate Algebra*	3	Descriptive Physics (with lab)	4	Cardiovascular Physiology	4
Medical Terminology	1	Public Speaking	3		
English Composition I (APA focus)	3	Principles of EKG	2		
Introduction to BCHS Experience	2	Basic Nursing Assistant (4 weeks)	0		
Total Hours	13	Total Hours	13	Total Hours	8

\*Math Competency Prerequisite to Intermediate Algebra

#### Year 2

Fall Semester (16 weeks)		Spring Semester (16 weeks)		Summer Term (10 weeks)	
Course	Hours	Course	Hours	Course	Hours
Core I: Vascular Sonography	8	Core II: Vascular Sonography	7	Clinical Rotation I: Vascular Sonography	11
Vascular Sonography Skills I	1	Vascular Sonography Skills II	1		
Ethics in Healthcare	3	Vascular Sonography Clinical Experience	1		
		Global Community: Cultural Diversity & Healthcare	3		
Total Hours	12	Total Hours	12	Total Hours	11

#### Year 3

Fall Semester (16 weeks)	
Course	Hours
Clinical Rotation II: Vascular Sonography	14
Board Review: Vascular Sonography	1
Total Hours	15

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### VASCULAR SONOGRAPHY

#### Bachelor of Science Degree

Prepares students for careers in vascular sonography.

#### Requirements for Graduation

**Associate of Science Degree:** 121 credit hours. This program prepares the graduate to perform cerebral and peripheral vascular diagnostic evaluations in direct patient care settings. The use of imaging and non-imaging modalities aid the physician in the diagnosis and treatment of a wide variety of disorders affecting the peripheral vascular system, including stroke, peripheral vascular disease and venous abnormalities. There is a strong emphasis on anatomy and physiology; vascular hemodynamics and

sound physics. Clinical experience is a major component of the program. Graduates of the program meet published requirements by the America Registry of Diagnostic Medical Sonographers (ARDMS) to apply for the registry examination.

The program is designed to be completed in seven semesters and three summer sessions (13 weeks). Each student must complete 61 hours of general education courses and 60 semester hours in the vascular sonography major. A minimum 2.0 grade point average (4.0 system) is required in each general education course and a minimum 2.5 grade point average (4.0 system) is required in each vascular sonography course.

All general education courses must be completed with a grade of C or higher and official transcript(s) must be on file.

#### Other Requirements

- Computer Proficiency.....0
- A Basic Nursing Assistant course or basic patient care course with a clinical component is required prior to enrollment in the first clinical course.
- CPR Validation – Healthcare Provider.....0
- CPR for the Healthcare Provider is required prior to enrollment in the first clinical course.
- Community Service (30 hours prior to graduation).....0

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### Sample Curriculum Plan – Bachelor of Science Degree: Vascular Sonography

#### Year 1

Fall (16 weeks)		Spring (16 weeks)		Summer	
Course	Hours	Course	Hours	Course	Hours
English Composition (APA focus)	3	Healthcare Management Elective	3	Basic Nursing Assistant	0
Global Community: Cultural Diversity and Healthcare	3	Anatomy and Physiology I (with lab)	4	Elective	3
Intermediate Algebra (or higher)	3	Public Speaking	3		
Natural Science Elective	3	Social Science Elective	3		
Introduction to BryanLGH College of Health Sciences Experience	2	Elements of Statistics	3		
Medical Terminology	1				
Total Hours	15	Total Hours	16	Total Hours	3

#### Year 2

Fall Semester (16 weeks)		Spring Semester (16 weeks)		Summer Term (10 weeks)	
Course	Hours	Course	Hours	Course	Hours
Anatomy and Physiology II (with lab)	4	Descriptive Physics (with lab)	4	Physics and Instrumentation	4
Ethics in Healthcare	3	Principles of EKG	2	CV Physiology	4
Humanities Elective	3	Pathophysiology	3		
Healthcare Management Elective	3	Healthcare Management Elective (upper level)	3		
Research Healthcare					
Total Hours	12	Total Hours	12	Total Hours	11

#### Year 3

Fall Semester (16 weeks)		Spring Semester (16 weeks)		Summer Term (13 weeks)	
Course	Hours	Course	Hours	Course	Hours
Core I: Vascular Sonography	8	Core II: Vascular Sonography	7	Clinical Rotation I: Vascular Sonography	11
Vascular Sonography Skills I	1	Vascular Sonography Skills II	1		
Healthcare Management Elective (upper level)	3	Vascular Sonography Clinical Experience	1		
Healthcare Management Elective	3	Social Science Elective (upper level)	3		
Research Healthcare		Issues & Trends in Health Professions	2		
Total Hours	12	Total Hours	14	Total Hours	11

#### Year 4

Fall Semester (16 weeks)					
Course	Hours				
Clinical Rotation II: Vascular Sonography	14				
Board Review: Vascular Sonography	1				
Total Hours	15				

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### DIAGNOSTIC MEDICAL SONOGRAPHY PROGRAM

#### Associate of Science Degree

Prepares students for careers in diagnostic medical sonography.

#### Requirements for Graduation

##### Associate of Science Degree: 84 credit hours

This program prepares the graduate to utilize ultrasound to collaborate with medical professionals in the diagnosis and treatment of clients referred for ultrasound studies. Theory content and clinical experience focuses on ultrasound imaging including the abdominal organs and structures, obstetrics and gynecology, superficial structures (e.g., thyroid, breast, vessels, prostate and testicles) and neonatal brain and spine. These images aid physicians in diagnosing and

treating certain pathologies. The diagnostic medical sonographer must have a very in-depth working knowledge of human anatomy. Clinical experience is a major emphasis of the program. Graduates of the program meet published requirements by the American Registry of Diagnostic Medical Sonographers (ARDMS) to apply for the registry examination in Abdomen and Obstetrics/Gynecology.

The program is designed to be completed in five semesters and two 13 week summer sessions.

#### General Education Requirements

Each student must complete 31 semester hours of general education courses and 53 hours in the diagnostic medical sonography major. A minimum 2.0 grade point average (4.0 system) is required in each General Education course and a minimum of 2.5 grade point average (4.0 system) is required in each diagnostic medical sonography course.

All general education courses must be completed with a grade of C or higher and official transcript(s) must be on file.

#### Other Requirements

Computer Proficiency.....0

A Basic Nursing Assistant course or basic patient care course with a clinical component is required prior to enrollment in the first clinical course.

CPR Validation -Healthcare Provider.....0

CPR for the Healthcare Provider is required prior to enrollment in the first clinical course.

Community Service (15 hours prior to graduation) .....0

#### Advanced Placement

Advanced placement in the diagnostic medical sonography program may be available for applicants who have completed specified programs in a healthcare field, e.g., radiologic technology, nuclear medicine, nursing, cardiovascular technology, respiratory therapy, etc. Students would be required to complete all the courses in the major and meet general education requirements. Curriculum plans are developed on an individual basis. (See Advanced Placement in Health Professions, page 58)

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### Sample Curriculum Plan by Semester – Associate of Science Degree: Diagnostic Medical Sonography

#### Year 1

Fall (16 weeks)		Spring (16 weeks)		Summer (13 weeks)	
Course	Hours	Course	Hours	Course	Hours
Anatomy & Physiology I (with lab)	4	Anatomy & Physiology II (with lab)	4	Pathophysiology	3
Intermediate Algebra *	3	Public Speaking	3	Physics and Instrumentation	4
Medical Terminology	1	Descriptive Physics (with lab)	4		
English Composition I (APA focus)	3	Basic Nursing Assistant	0		
Introduction to BCHS Experience	2	Ethics in Healthcare	3		
Total Hours	13	Total Hours	14	Total Hours	7

\*Math Competency Prerequisite to Intermediate Algebra

#### Year 2

Fall (16 weeks)		Spring (16 weeks)		Summer (13 weeks)	
Course	Hours	Course	Hours	Course	Hours
Global Community: Cultural Diversity and Healthcare	3	Obstetrical/Neonatal Sonography	5		
Sonography of Superficial Structures	2	Elements of Vascular Sonography	2	Diagnostic Medical Sonography: Clinical Practicum I	8.5
Abdominal Sonography I	4	Abdominal Sonography II	1		
Gynecologic Sonography	2	Diagnostic Medical Sonography Skills Lab/Clinical II	7		
Diagnostic Medical Sonography Skills Lab	2				
Total Hours	13	Total Hours	15	Total Hours	8.5

Fall (16 weeks)	
Course	Hours
Diagnostic Medical Sonography Clinical Practicum II	11.5
Board Review: Diagnostic Medical Sonography	2
Total Hours	13.5

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### DIAGNOSTIC MEDICAL SONOGRAPHY PROGRAM

#### Bachelor of Science Degree

Prepares students for careers in diagnostic medical sonography.

#### Requirements for Graduation

##### Bachelor of Science Degree: 121 credit hours

This program prepares the graduate to utilize ultrasound to collaborate with medical professionals in the diagnosis and treatment of clients referred for ultrasound studies. Theory content and clinical experience focuses on ultrasound imaging including the abdominal organs and structures, obstetrics and gynecology, superficial structures (e.g., thyroid, breast, vessels, prostate and testicles) and neonatal brain and spine. These images aid physicians in diagnosing and

treating certain pathologies. The diagnostic medical sonographer must have a very in-depth working knowledge of human anatomy. Clinical experience is a major emphasis of the program. Graduates of the program meet published requirements by the American Registry of Diagnostic Medical Sonographers (ARDMS) to apply for the registry examination in Abdomen and Obstetrics/Gynecology.

The program is designed to be completed in seven semesters and three 13 week summer sessions.

#### General Education Requirements

Each student must complete 66 semester hours of general education courses and 55 hours in the diagnostic medical sonography major. A minimum 2.0 grade point average (4.0 system) is required in each General Education course and a minimum of 2.5 grade point average (4.0 system) is required in each diagnostic medical sonography course.

All general education courses must be completed with a grade of C or higher and official transcript(s) must be on file.

#### Other Requirements

Computer Proficiency.....0

A Basic Nursing Assistant course or basic patient care course with a clinical component is required prior to enrollment in the first clinical course.

CPR Validation -Healthcare Provider.....0

CPR for the Healthcare Provider is required prior to enrollment in the first clinical course.

Community Service (30 hours prior to graduation) .....0

#### Advanced Placement

Advanced placement in the diagnostic medical sonography program may be available for applicants who have completed specified programs in a healthcare field, e.g., radiologic technology, nuclear medicine, nursing, cardiovascular technology, respiratory therapy, etc. Students would be required to complete all the courses in the major and meet general education requirements. Curriculum plans are developed on an individual basis. (See Advanced Placement in Health Professions, page 58)

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### Sample Curriculum Plan – Bachelor of Science Degree: Diagnostic Medical Sonography

#### Year 1

Fall (16 weeks)		Spring (16 weeks)		Summer (13 weeks)	
Course	Hours	Course	Hours	Course	Hours
English Composition (APA focus)	3	Healthcare Management Elective	3	Elements of Statistics	3
Intermediate Algebra (or higher)	3	Anatomy and Physiology I (with lab)	4	Elective	3
Introduction to BryanLGH College of Health Sciences Experience Course	2	Public Speaking	3		
Medical Terminology	1	Social Science Elective	3		
Natural Science Elective	3	Humanities Elective	3		
Elective	3				
Total Hours	15	Total Hours	16	Total Hours	6

#### Year 2

Fall Semester (16 weeks)		Spring Semester (16 weeks)		Summer Term (13 weeks)	
Course	Hours	Course	Hours	Course	Hours
Anatomy and Physiology II (with lab)	4	Pathophysiology	3	Physics and Instrumentation	4
Ethics in Healthcare	3	Descriptive Physics (with lab)	4	Basic Nursing Assistant	0
Global Community: Cultural Diversity in Healthcare	3	Healthcare Management Elective (upper level)	3		
Healthcare Management Elective	3	Social Science Elective (upper level)	3		
Research Healthcare	2	Issues & Trends in Health Professions	2		
Total Hours	15	Total Hours	15	Total Hours	4

#### Year 3

Fall Semester (16 weeks)		Spring Semester (16 weeks)		Summer Term (13 weeks)	
Course	Hours	Course	Hours	Course	Hours
Healthcare Management Elective (upper level)	3	Obstetrical/Neonatal Sonography	5	Diagnostic Medical Sonography: Clinical Practicum I	8.5
Abdominal Sonography I	4	Abdominal Sonography II	1		
Gynecological Sonography	2	Diagnostic Medical Sonography Skills Lab Clinical	7		
Diagnostic Medical Sonography Skills Lab	2	Elements of Vascular Sonography	2		
Sonography of Superficial Structures	2				
Total Hours	13	Total Hours	15	Total Hours	8.5

#### Year 4

Fall Semester (16 weeks)					
Course	Hours				
Diagnostic Medical Sonography Clinical Practicum	11.5				
Board Review: Medical Sonography	2				
Total Hours	13.5				

# CURRICULUM & COURSES

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## SCHOOL OF HEALTH PROFESSIONS

### **HEALTHCARE MANAGEMENT CERTIFICATE PROGRAM**

#### **Certificate**

The Healthcare Management Certificate provides healthcare managers or those aspiring to become managers with in-depth knowledge of management principles including leadership and management skills that apply to the healthcare setting.

#### **Requirements for Completion**

##### **Certificate: 13 credit hours**

This program prepares the graduate to apply management principles including leadership and management skills in the healthcare setting. The Certificate in Healthcare Management is a 13-credit hour program consisting of four, three-credit courses and a one credit-hour field experience. The program can be completed part-time or in one full-time semester and is designed for completion in two years or less. The courses are fully online in a 16 week format.

Courses are offered at both the graduate and undergraduate level, making the program appropriate for those with Associate degrees as well as Baccalaureate degrees. All students will take a course in management theories, concepts and skills; human resources management and the field experience. Students also will choose from the following courses: legal issues in healthcare, healthcare economics and healthcare finance and budgeting.

Course descriptions are located in the general education curriculum section of this catalog.

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### **INTRODUCTION TO THE BRYANLGH COLLEGE OF HEALTH SCIENCES (BCHS) EXPERIENCE (AHAL100)**

2 semester hours

#### *Course Description*

This interdisciplinary course introduces all incoming students to the culture and expectations of BryanLGH College of Health Sciences. The curriculum will integrate General Education concepts into healthcare professional education while exploring academic integrity, college-level research, professional communication, and the importance of lifelong learning. The course will also cover responsibilities of clinical practice in the health care setting, including HIPPA regulations and cultural awareness. Additional concepts such as APA documentation, classroom etiquette, and time management will also be reviewed. (Prerequisite: TEAS or CAAP test based on program placement)

### **PHYSICS AND INSTRUMENTATION (AHAL123)**

4 semester hours

#### *Course Description*

Principles of sound propagation and tissue interaction are addressed. These include reflection, refraction, absorption and attenuation, the piezoelectric effect, transducer characteristics, focusing and resolution, methods of storage and display, recognition of artifacts, safety and quality assurance. (Prerequisites: Intermediate or College Algebra, Descriptive or General Physics or instructor permission)

### **PRINCIPLES OF EKG (AHAL125)**

2 semester hours

#### *Course Description*

This course is designed to teach principles of electrocardiograms including information necessary to interpret and understand normal and abnormal cardiac rhythms. (Prerequisite: Anatomy and Physiology II)

### **CARDIOVASCULAR PHYSIOLOGY (AHAL126)**

4 semester hours

#### *Course Description*

This course covers the major principles and laws that correspond to the function of the cardiovascular system. The course begins with an overview of anatomy of the cardiovascular system including descriptions of electrophysiologic principles. Cardiac function and analysis of the circulation and the Opathologic conditions that affect it will be reviewed. (Prerequisite: Anatomy and Physiology I & II)

### **RESEARCH IN HEALTHCARE (AHAL313)**

2 semester hours

#### *Course Description*

This course introduces the student to research processes used in healthcare. Emphasis is placed on identification and clarity of research questions, research appraisal and interpretation of research articles, evidence based practice and integration of research findings into healthcare delivery. (Prerequisite: Statistics)

### **ISSUES AND TRENDS IN HEALTH PROFESSIONS (AHAL314)**

2 semester hours

#### *Course Description*

This course examines current issues and trends in health professions and explores anticipated future developments based on changes in healthcare. Included are political, ethical, legal and historical issues related to the delivery of healthcare.

### **ADULT CARDIAC SONOGRAPHY SKILLS I: ADVANCED PLACEMENT (CARD134AP)**

1 semester hour

#### *Course Description*

This course provides hands-on experience in a skills lab setting. The student acquires skills in operation of the ultrasound machine and performing noncomplex adult echocardiograms. The student will begin to correlate the patient's medical history and clinical symptoms to possible cardiac pathology. (Prerequisite: Advanced Placement status)

### **ADULT CARDIAC SONOGRAPHY SKILLS I (CARD134S)**

1 semester hour

#### *Course Description*

This course provides hands-on experience in a skills lab setting. The student will acquire beginning skills in operation of the ultrasound machine and performing noncomplex adult echocardiograms. (Prerequisites: Principles of EKG, Cardiovascular Physiology, Physics and Instrumentation; concurrent with Core I: Adult Cardiac Sonography)

### **CORE I: ADULT CARDIAC SONOGRAPHY (CARD143)**

8 semester hours

#### *Course Description*

This course studies anatomy, physiology, and instrumentation of the cardiac ultrasound machine. Basic 2D, M-mode, and Doppler principles will be introduced. (Prerequisites: Principles of EKG, Cardiovascular Physiology, Physics and Instrumentation; concurrent with Adult Cardiac Sonography Skills I)

### **ADULT CARDIAC SONOGRAPHY SKILLS II: ADVANCED PLACEMENT (CARD214AP)**

1 semester hour

#### *Course Description*

This course builds on skills learned in Adult Cardiac Sonography Skills I. It offers hands-on practice in a skills lab setting. The student will continue to gain experience in obtaining noncomplex adult echocardiograms as well as obtaining valve areas, evaluating regurgitant lesions, and extraction of pressures from measured volumes. Mechanical assist devices, stress testing, trans-esophageal echocardiograms and contrast studies will also be introduced. (Prerequisites: Advanced Placement status, Adult Cardiac Sonography Skills I, Core I: Adult Cardiac Sonography)

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### **ADULT CARDIAC SONOGRAPHY SKILLS II (CARD214S)**

1 semester hour

#### *Course Description*

This course builds on skills learned in Adult Cardiac Sonography Skills I. It provides additional hands-on practice in a skills lab setting. The student learns how to use the analysis package and techniques to evaluate pathologies and continues to gain experience in preparation for completing full adult cardiac sonography examinations. (Prerequisites: Core I: Adult Cardiac Sonography, Adult Cardiac Sonography Skills I; concurrent with Core II: Adult Cardiac Sonography, and Adult Cardiac Sonography Clinical Experience)

### **CLINICAL ROTATION I: ADULT CARDIAC SONOGRAPHY: ADVANCED PLACEMENT (CARD222AP)**

7 semester hours

#### *Course Description*

In the clinical setting the student will interact with cardiologists, other echo techs, and patients. The student will be performing complete transthoracic, transesophageal, and stress echoes on patients. Preceptors will be assigned to act as mentors to the student to ensure a positive experience. (Prerequisites: Advanced Placement status, Adult Cardiac Sonography Skills II, Core II: Adult Cardiac Sonography)

### **CLINICAL ROTATION I: ADULT CARDIAC SONOGRAPHY (CARD223) (CARD221)**

12.5 semester hours

11 semester hours

#### *Course Description*

In the clinical setting the student will interact with cardiologists, other echo techs, and patients. The student will be performing complete transthoracic, transesophageal, and stress echoes on patients. Preceptors will be assigned to act as mentors to the student to ensure a positive experience. (Prerequisites: Core II: Adult Cardiac Sonography, Adult Cardiac Sonography Skills II, Adult Cardiac Sonography Clinical Experience)

### **CLINICAL ROTATION II: ADULT CARDIAC SONOGRAPHY: ADVANCED PLACEMENT (CARD232AP)**

6 semester hours

#### *Course Description*

In the clinical setting the student will continue to interact with cardiologists, other echo techs and patients. The student will gain additional experience in performing complete transthoracic, transesophageal and stress echoes on patients. Preceptors will be assigned to act as mentors to the student to ensure a positive experience. (Prerequisites: Advanced Placement status, and Clinical Rotation I: Adult Cardiac Sonography)

### **BOARD REVIEW: ADULT CARDIAC SONOGRAPHY (CARD233)**

1 semester hour

#### *Course Description*

This course is designed to prepare the student to successfully pass the registry for adult cardiac sonography. The students will review materials from all previous course work. A mock registry exam will be given and areas needing improvement will be emphasized. (Prerequisites: Clinical Rotation I: Adult Cardiac Sonography; concurrent with Clinical Rotation II: Adult Cardiac Sonography)

### **CLINICAL ROTATION IIA: ADULT CARDIAC SONOGRAPHY (CARD234)**

Winter Term

1.5 Semester Hours

#### *Course Description*

This course is taken in conjunction with Clinical Rotation IIB. In the clinical setting the student will continue to interact with cardiologists, other echo techs, and patients. The student will gain additional experience in performing complete transthoracic, transesophageal, and stress echoes on patients. Preceptors will be assigned to act as mentors to the student to ensure a positive experience. (Prerequisite: Clinical Rotation I: Adult Cardiac Sonography)

### **CLINICAL ROTATION IIB: ADULT CARDIAC SONOGRAPHY (CARD235)**

11 Semester Hours

#### *Course Description*

This course is taken in conjunction with Clinical Rotation IIA. In the clinical setting the student will continue to interact with cardiologists, other echo techs, and patients. The student will gain additional experience in performing complete transthoracic, transesophageal, and stress echoes on patients. Preceptors will be assigned to act as mentors to the student to ensure a positive experience. (Prerequisite: Clinical Rotation IIA: Adult Cardiac Sonography)

### **CLINICAL ROTATION II: ADULT CARDIAC SONOGRAPHY (CARD237)**

14 semester hours

#### *Course Description*

In the clinical setting the student will continue to interact with cardiologists, other echo techs, and patients. The student will gain additional experience in performing complete transthoracic, transesophageal, and stress echoes on patients. Preceptors will be assigned to act as mentors to the student to ensure a positive experience. (Prerequisite: Clinical Rotation I: Adult Cardiac Sonography)

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### **CORE II: ADULT CARDIAC SONOGRAPHY (CARD243)**

7 semester hours

#### *Course Description*

This course addresses cardiac hemodynamic formulas as well as all the pathologies associated with the heart and how to evaluate them using the different modalities of cardiac ultrasound. Embryology and congenital defects of the heart are also discussed. (Prerequisite: Core I: Adult Cardiac Sonography, Adult Cardiac Sonography Skills I, concurrent with Adult Cardiac Sonography Skills II and Adult Cardiac Sonography Clinical Experience)

### **ADULT CARDIAC SONOGRAPHY CLINICAL EXPERIENCE (CARD244)**

1 semester hour

#### *Course Description*

The student will participate in activities in the clinical setting within the boundaries of the course and will continue to gain experience in obtaining noncomplex adult echocardiograms as well as obtaining valve areas, evaluating regurgitant lesions, and extraction of pressures from measured volumes. Mechanical assist devices, stress testing, transesophageal echocardiograms and contrast studies will also be introduced. (Prerequisites: Core I: Adult Cardiac Sonography, Adult Cardiac Sonography Skills I, CPR for Healthcare Provider concurrent with Core II: Adult Cardiac Sonography, and Adult Cardiac Sonography Skills II)

### **GYNECOLOGIC SONOGRAPHY (GENS132)**

2 semester hours

#### *Course Description*

Sectional anatomy of the transverse, longitudinal, and coronal planes of the female reproductive organs are studied. Gynecological pathologies are explored along with pertinent laboratory tests, pharmacologic agents, and signs and symptoms. Scanning techniques and protocols are emphasized. (Prerequisites: Pathophysiology and Physics and Instrumentation; concurrent with Abdominal Sonography I, Sonography of Superficial Structures, and Diagnostic Medical Sonography Skills Lab)

### **ABDOMINAL SONOGRAPHY I (GENS133)**

4 semester hours

#### *Course Description*

This course studies the application of ultrasound physics and instrumentation in abdominal imaging. Scanning techniques and protocols are emphasized. Sectional anatomy of the transverse, longitudinal, and coronal planes of abdominal organs of sonographic interest including the renal and urinary system, adrenal glands, prostate, biliary system, pancreas and spleen are studied. Selected pathology of these organs is discussed along with pertinent laboratory tests, pharmacologic agents, and signs and symptoms. (Prerequisites: Pathophysiology and Physics and Instrumentation; concurrent with Gynecologic Sonography, Diagnostic Medical Sonography Skills Lab, Sonography of Superficial Structures)

### **DIAGNOSTIC MEDICAL SONOGRAPHY SKILLS LAB (GENS137)**

2 semester hours

#### *Course Description*

This course provides supervised skills lab experience emphasizing sonographic imaging of the abdomen and female reproductive organs. (Prerequisites: Pathophysiology and Physics and Instrumentation; CPR for Healthcare Provider concurrent with Abdominal Sonography I, Sonography of Superficial Structures, Gynecological Sonography)

### **ABDOMINAL SONOGRAPHY II (GENS212)**

1 semester hour

#### *Course Description*

This course continues the study of the application of ultrasound physics and instrumentation in abdominal imaging. Scanning techniques and protocols are emphasized. Sectional anatomy of the transverse, longitudinal, and coronal planes of abdominal organs of sonographic interest including the GI tract, abdominal wall/peritoneum, and transplanted organs are studied. Selected pathology of these organs is discussed along with pertinent laboratory tests, pharmacologic agents, and signs and symptoms. Ultrasound guided biopsy/drainage is also discussed. (Prerequisite: Abdominal Sonography I)

### **OBSTETRICAL/NEONATAL SONOGRAPHY (GENS213)**

5 semester hours

#### *Course Description*

This course studies sectional anatomy of the transverse, longitudinal and coronal planes of the female reproductive organs, embryo, fetus and newborn. Normal maternal changes and fetal development throughout gestation are discussed. Embryonic and fetal measurements as well as anomalies of the first, second, and third trimester are studied. Anatomy of the neonatal brain, spine and hips are studied. Maternal, fetal, and neonatal pathologies are explored along with pertinent laboratory tests, pharmacologic agents, and signs and symptoms. Scanning techniques and protocols are emphasized. (Prerequisites: Abdominal Sonography I, Gynecologic Sonography, Diagnostic Medical Sonography Skills Lab; concurrent with Abdominal Sonography II, Diagnostic Medical Sonography Skills Lab/ Clinical)

### **DIAGNOSTIC MEDICAL SONOGRAPHY SKILLS LAB/CLINICAL II (GENS216)**

7 semester hours

#### *Course Description*

The emphasis of this course is to provide supervised skills lab and clinical experiences in sonographic imaging of obstetrical, gynecological and neonatal structures. In addition, the student will continue to gain experience in sonographic imaging introduced in GENS137: Skills Lab. (Prerequisites: Abdominal Sonography I, Gynecologic Sonography, and Diagnostic Medical Sonography Skills Lab/Clinical I; concurrent with Abdominal Sonography II and Obstetrical/Neonatal Sonography)

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### **SONOGRAPHY OF SUPERFICIAL STRUCTURES (GENS220)**

2 semester hours

#### *Course Description*

This course studies ultrasonic imaging of superficial structures including the breast, testicles, scrotum, prostate, thyroid and parathyroid glands. Sectional anatomy of the transverse, longitudinal, and coronal planes of these organs and the associated scanning techniques and protocols are emphasized. Selected pathology of these organs is discussed along with pertinent laboratory tests, pharmacologic agents, and signs and symptoms. (Prerequisites: Abdominal Sonography I and Diagnostic Medical Sonography Skills Lab/Clinical; concurrent with Diagnostic Medical Sonography Clinical Practicum I)

### **ELEMENTS OF VASCULAR SONOGRAPHY (GENS221)**

2 semester hours

#### *Course Description*

This course offers the student in a sonography program other than Vascular Sonography the opportunity to gain introductory theory knowledge and clinical skill in the area of vascular sonography. Focus will be on learning basic elements of carotid and venous duplex scanning. Arterial assessment will be briefly address. This course does not meet any requirements for the Vascular Sonography program. (Prerequisites: Abdominal Sonography I, Diagnostic Medical Sonography Skills Lab)

### **DIAGNOSTIC MEDICAL SONOGRAPHY/CLINICAL PRACTICUM I (GENS228)**

8.5 semester hours

#### *Course Description*

The emphasis of this course is to provide supervised clinical experiences in sonographic imaging of superficial structures and vessels and to continue to gain experience in abdominal, obstetrical, neonatal and gynecologic sonographic imaging introduced in previous courses. (Prerequisites: Abdominal Sonography II, Obstetrical/Neonatal Sonography, Gynecological Sonography, Elements of Vascular Sonography and Diagnostic Medical Sonography Skills Lab/Clinical)

### **BOARD REVIEW: DIAGNOSTIC MEDICAL SONOGRAPHY (GENS231)**

2 semester hours

#### *Course Description*

This course is designed to prepare the student to successfully pass the registry exams for diagnostic medical sonography. The student will review materials from all previous course work. Practice registry exams will be given and areas needing improvement will be emphasized. (Prerequisites: All theory and skills/clinical courses)

### **DIAGNOSTIC MEDICAL SONOGRAPHY/CLINICAL PRACTICUM II (GENS233)**

11.5 semester hours

#### *Course Description*

This course provides extensive supervised clinical experience in performing sonographic procedures in all the areas introduced in diagnostic medical sonography Skills Lab/Clinical, and Clinical Practicum I. (Prerequisite: Diagnostic Medical Sonography Clinical Practicum I)

### **MEDICAL TERMINOLOGY (HIMS100)**

1 credit hour

#### *Course Description*

This course focuses on basic structure of and a system for building medical terms. Pronunciation, spelling, defining terms and common medical abbreviations are included. (Prerequisite: none)

### **PHLEBOTOMY (MEDT101)**

3 semester hours

#### *Course Description*

Introduction to the practice and theory of phlebotomy. This course includes ethical and legal issues that pertain to phlebotomy, laboratory safety, basic anatomy and physiology, types of laboratory specimens, specimen handling, and special collection procedures. Practical instruction to include venipuncture and capillary blood collection. The curriculum is designed to provide the didactic information and competencies required by the American Society of Clinical Pathology (ASCP) for certification as a Certified Phlebotomy Technician (PBT, ASCP). (Prerequisite: At least 16 years of age)

### **PHLEBOTOMY CLINICAL EXPERIENCE (MEDT101C)**

3 semester hours

#### *Course Description*

Clinical experience in performing blood collection in the hospital setting. Student applies skills acquired in the didactic phlebotomy course. Direct supervision is provided at all times by a clinical preceptor. Participants will be assigned to the clinical laboratory for 135 contact hours to practice and demonstrate proficiency in specimen collection (including venipuncture and capillary puncture). This course is designed to provide the required clinical component to make the student eligible to take the Certified Phlebotomy Technician (PBT ASCP) exam. Enrollment is limited. (Prerequisites: At least 16 years of age. Completion of health records (including current immunizations and tuberculosis test), completion of the didactic course with a minimum score of "A", and instructor's approval and a criminal background check is required prior to enrollment in this class.)

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### **BASIC NURSING ASSISTANT (NURA102) (NURA102X)**

3 semester hours  
non-credit

#### *Course Description*

This course is designed to train the beginning nursing assistant (NA) to provide safe, effective, and caring services to the patients of any healthcare setting. It is designed to meet the training requirements of both federal law and Nebraska state law for nursing assistants working in a licensed nursing facility. The skills and knowledge contained in this material can be adapted for any healthcare or residential setting. (Prerequisites: At least 16 years of age, documentation of required immunizations, criminal background check, and completion of Abuse Registry form prior to beginning course.) Priority registration for the Basic Nursing Assistant Course will be given in the following order to those students who 1) are currently enrolled in a degree program at the College of Health Sciences, 2) have been accepted into a degree program at the College, 3) have applied to a degree program at the College, or 4) are registering as a student-at-large. Priority registration for the class will only apply until six weeks prior to the start date of the course.

### **VASCULAR SONOGRAPHY SKILLS I (VASC136S)**

1 semester hour

#### *Course Description*

This course provides hands-on experience in a skills lab setting. The student will acquire beginning skills in the use of ultrasound and other noninvasive vascular techniques. Techniques will include listening to and recognizing changes in the vascular system. (Prerequisites: Principles of EKG, Cardiovascular Physiology, Physics and Instrumentation; concurrent with Core I: Vascular Sonography)

### **CORE I: VASCULAR SONOGRAPHY (VASC138)**

8 semester hours

#### *Course Description*

This course includes study of anatomy, view planes, and landmarks specific to the cerebral/peripheral vascular system. Duplex imaging, Doppler principles and analysis, hemodynamics, and indirect instrumentation will be introduced. (Prerequisites: Principles of EKG, Cardiovascular Physiology, Physics and Instrumentation; concurrent with Vascular Sonography Skills I)

### **VASCULAR SONOGRAPHY SKILLS II: ADVANCED PLACEMENT (VASC216AP)**

1 semester hour

#### *Course Description*

This course builds on skills acquired in Vascular Sonography Skills I. It provides additional hands-on practice in a skills lab setting. The student will continue to gain experience in completing full examination of all cerebral/peripheral vascular areas of interest, initial interpretation of the results and recognition of possible indications for surgical intervention. (Prerequisites: Advanced Placement status, Vascular Sonography Skills I, Core I: Vascular Sonography)

### **VASCULAR SONOGRAPHY SKILLS II (VASC216S)**

1 semester hour

#### *Course Description*

This course builds on skills acquired in Vascular Sonography Skills I. It provides additional hands-on practice in a skills lab setting. The student will continue to gain experience in the skills lab in preparation for completing full examination of all cerebral/peripheral vascular areas of interest, initial interpretation of the results and recognition of possible indications for surgical intervention. (Prerequisites: Core I: Vascular Sonography, Vascular Sonography Skills I, concurrent with Vascular Sonography Clinical Experience, Core II: Vascular Sonography)

### **CLINICAL ROTATION I: VASCULAR SONOGRAPHY: ADVANCED PLACEMENT (VASC224AP)**

7 semester hours

#### *Course Description*

In the clinical setting, the student will interact with vascular surgeons, other vascular sonographers and patients. The student will be performing complete carotid, lower and upper arterial and venous studies. Preceptors will be assigned to act as mentors to the student to ensure a positive experience. (Prerequisites: Advanced Placement status, Vascular Sonography Skills II, Core II: Vascular Sonography)

### **CLINICAL ROTATION I: VASCULAR SONOGRAPHY (VASC225)**

12.5 semester hours

### **(VASC223)**

11 semester hours

#### *Course Description*

In the clinical setting, the student will interact with vascular surgeons, other vascular sonography technologists and patients. The student will be performing complete carotid, lower and upper arterial and venous studies. Preceptors will be assigned to act as mentors to the student to ensure a positive experience. (Prerequisites: Core II: Vascular Sonography, Vascular Sonography Skills II, and Vascular Sonography Clinical Experience)

### **CLINICAL ROTATION II: VASCULAR SONOGRAPHY: ADVANCED PLACEMENT (VASC234AP)**

6 semester hours

#### *Course Description*

In the clinical setting, the student will continue to interact with vascular surgeons, other vascular sonographers and patients. The student will gain additional experience in performing complete carotid, lower and upper arterial and venous studies. Preceptors will be assigned to act as mentors to the student to ensure a positive experience. (Prerequisites: Advanced Placement status, Clinical Rotation I: Vascular Sonography)

# CURRICULUM & COURSES

## SCHOOL OF HEALTH PROFESSIONS

### **BOARD REVIEW: VASCULAR SONOGRAPHY (VASC235)**

1 semester hour

#### *Course Description*

This course is designed to prepare the student to successfully pass the registry for vascular sonography. The students will review materials from all previous course work. A mock registry exam will be given and areas needing improvement will be emphasized. (Prerequisites: Clinical Rotation I: Vascular Sonography; concurrent with Clinical Rotation II: Vascular Sonography)

### **CLINICAL ROTATION IIA: VASCULAR SONOGRAPHY (VASC238)**

(Winter Term)

1.5 semester hours

#### *Course Description*

This course is taken in conjunction with Clinical Rotation IIB. In the clinical setting, the student will continue to interact with vascular surgeons, other vascular sonography technologists and patients. The student will gain additional experience in performing complete carotid, lower and upper arterial and venous studies. Preceptors will be assigned to act as mentors to the student to ensure a positive experience. (Prerequisite: Clinical Rotation I: Vascular Sonography)

### **CLINICAL ROTATION IIB: VASCULAR SONOGRAPHY (VASC239)**

11 semester hours

#### *Course Description*

This course is taken in conjunction with Clinical Rotation IIA. In the clinical setting, the student will continue to interact with vascular surgeons, other vascular sonography technologists and patients. The student will gain additional experience in performing complete carotid, lower and upper arterial and venous studies. Preceptors will be assigned to act as mentors to the student to ensure a positive experience. (Prerequisite: Clinical Rotation I: Vascular Sonography)

### **CLINICAL ROTATION II: VASCULAR SONOGRAPHY (VASC240)**

14 semester hours

#### *Course Description*

This course is taken in conjunction with Clinical Rotation IIB. In the clinical setting, the student will continue to interact with vascular surgeons, other vascular sonography technologists and patients. The student will gain additional experience in performing complete carotid, lower and upper arterial and venous studies. Preceptors will be assigned to act as mentors to the student to ensure a positive experience. (Prerequisite: Clinical Rotation I: Vascular Sonography)

### **CORE II: VASCULAR SONOGRAPHY (VASC245)**

7 semester hours

#### *Course Description*

This course addresses the peripheral/cerebral vascular system through the study of fluid principles and formulas including energy and flow dynamics specific to certain vascular anatomy; pathologies associated with peripheral/cerebral vascular disease and the respective noninvasive technical modalities including transcranial doppler and abdominal

vasculature. (Prerequisites: Core I: Vascular Sonography, Vascular Sonography Skills I; concurrent with Vascular Sonography Clinical Experience, Vascular Sonography Skills II)

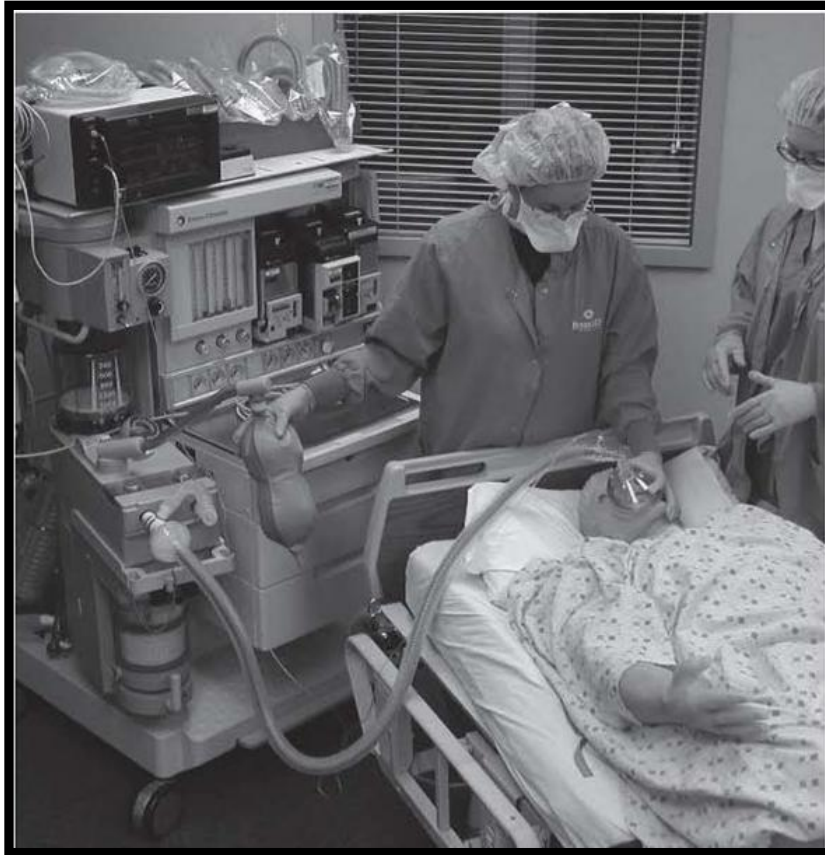
### **VASCULAR SONOGRAPHY CLINICAL EXPERIENCE (VASC246)**

1 semester hour

#### *Course Description*

This course provides the student the opportunity to apply the additional skills learned in the skills lab in the clinical setting under direct supervision. The student gains experience in completion of full examination of all cerebral/peripheral vascular areas of interest, initial interpretation of the results and recognition of possible indications for surgical intervention. (Prerequisites: CPR for Healthcare Provider, Professional Practice Issues, Core I: Vascular Sonography, Vascular Sonography Skills I, concurrent with Vascular Sonography Skills II, Core II: Vascular Sonography.)





# GRADUATE STUDIES

# GRADUATE STUDIES

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## **GRADUATE CERTIFICATE PROGRAM DESCRIPTIONS**

BryanLGH College of Health Sciences offers a graduate Certificate in Simulation Education. The program is a 9 credit-hour course of study.

The Certificate in Simulation Education is an online program, which allows for asynchronous learning opportunities. Each course in the certificate program runs over a 10-week period of time. Students must have access to a patient simulator, computer and internet; and possess word processing abilities. Basic computer skills are an inherent requirement for the certificate program. Additional information about computer skills and hardware/software requirements can be found in the Academic and Administrative section of the Catalog.

### **TUITION AND FEES**

Graduate Certificate tuition is \$518 per credit hour plus a \$23 per credit hour general fee. A \$75 fee must accompany the completed application. This is a processing fee and is not refundable.

### **ADMISSION REQUIREMENTS**

Each individual who applies for admission to a graduate certificate program is evaluated in terms of the following criteria:

- Baccalaureate degree from an accredited institution in a healthcare or education related field
- Cumulative GPA of a 3.0 on a 4.0 scale for baccalaureate coursework
- Two years clinical experience preferred
- One personal reference
- One professional reference
- One year of teaching experience
- TOEFL may be required for applicants for whom English is a learned language.

## **GRADUATE CERTIFICATE COURSE DESCRIPTIONS**

### **ACTIVE LEARNING THEORY AND TEACHING STRATEGIES (SIML800)**

3 semester hours

This course is designed to provide knowledge of learning theories and teaching strategies used to enhance learning for adults within the simulation environment. Focus will be placed on commonly used theories as well as the new and unique, with emphasis on determining applicability to the simulation environment. Diffusion of innovation theory and change theory will also be applied to patient simulation education.

### **USING SIMULATION TO FACILITATE LEARNING (SIML801)**

3 semester hours

This course is designed to focus on the role of the educator as facilitator in an academic environment or clinical practice setting. Concepts include developing objectives, curriculum integration strategies, fidelity, design and management of the simulated clinical experience, interdisciplinary team training, debriefing, research, and evaluation. Access to a patient simulator is required for course completion.

### **SIMULATION EDUCATION CAPSTONE (SIML802)**

3 semester hours

This course encourages the learner to explore deeper understanding of current issues and trends in simulation education, develop a project designed to address an identified issue, and to further apply concepts and skills learned throughout the certificate program. [Pre-requisites: completion of SIML800 and SIML801]

# GRADUATE STUDIES

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## **PROGRAM DESCRIPTION**

### **Master of Science in Nurse Anesthesia**

BryanLGH College of Health Sciences offers a 33-month program for Registered Nurses leading to a Master of Science degree in Nurse Anesthesia that is unique to Nebraska and the region. This two-phase program combines coursework in science and anesthesia with hands-on clinical practice that begins early in the curriculum.

### **Phase I and II**

The curriculum design of the Master of Nurse Anesthesia program is organized around a series of educational goals explored through two distinct phases and culminating with either a senior project or a thesis. Phase I of the program begins in the fall semester and is comprised of nine months of classroom study and clinical practice—including training on the state-of-the-art Human Patient Simulator that allows students to develop critical thinking while they hone their psychomotor skills. The student will begin an observational experience in the clinical area early in the curriculum during the Basic Principles of Anesthesia II course. This allows the student to begin to integrate didactic knowledge with clinical performance.

In Phase II of the program, students engage in more active clinical practice. This 24-month component of the program includes a series of four Advanced Principles of Anesthesia courses and encourages students' development of their research skills. The final semester includes a Professional Aspects course and a Synthesis course designed to assist the student in the integration of basic sciences into anesthesia practice. Students must be flexible, highly motivated, autonomous learners who can remain disciplined and focused during this rigorous graduate program. Students can expect to spend 50 to 60 hours per week in meeting the didactic and clinical demands of the program.

At graduation, students who have completed this intensive, collaborative program receive a Master of Science degree in Nurse Anesthesia from BryanLGH College of Health Sciences. Graduates are eligible to take the National Board on Certification & Recertification of Nurse Anesthetists national certification exam to become Certified Registered Nurse Anesthetists (CRNAs).

## **NURSE ANESTHESIA PROGRAM PHILOSOPHY**

The philosophic foundations of the Master's degree in Nurse Anesthesia are commensurate with all graduate programs within the BryanLGH College of Health Sciences.

The study of nurse anesthesia is unique in the realm of traditional graduate programming as the theoretical and clinical principles of the art draw from the integration of many disciplines that contribute to the core of professional education. The complexity of contemporary anesthesia practice justifiably requires this integration to enable the nurse anesthetist to practice the humanistic, scientific and technical skills of the profession competently and intelligently.

The educational program for the preparation of nurse anesthetists is conducted as a shared responsibility between student and faculty. Students must be intensely committed to achieving their goals through a consistent demonstration of purpose, motivation, responsibility to patients and colleagues, independence of thought, creativity and personal demeanor. Faculty, likewise, are committed to the responsibilities of competent resource, guidance and professionalism.

The program seeks to express its commitment to each student through individualized instruction and counsel. Our primary goal is to provide the graduate student with an advanced scientific knowledge base and a comprehensive array of clinical skills that hallmark the standards of care in anesthesia practice.

Our obligation to graduates will be to prepare them for full participation in the delivery of anesthesia care in concert with other healthcare providers. They will be competent in independent judgment as professional nurses.

Our responsibility to the community is expressed in the aim of providing an educational program that will ably prepare the nurse anesthetist to meet the healthcare needs of a culturally diverse population.

Our obligation to the profession is to prepare a nurse anesthetist who will serve as an invaluable resource in support of the goals of the American Association of Nurse Anesthetists and to the advancement of the profession of nurse anesthesia.

# GRADUATE STUDIES

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## **NURSE ANESTHESIA EDUCATIONAL GOALS**

### **Academic Goals**

- The student will obtain an advanced body of specialized knowledge that enables the student to integrate didactic information and clinical data and formulate a comprehensive individualized care plan.
- The student will be able to adjust the plan of care based on critical thinking and a problem-solving approach.

### **Academic Terminal Objectives**

- The student will develop advanced basic science knowledge.
- The student will acquire specific pharmacological knowledge applicable to anesthesia practice.
- The student will identify physiologic abnormalities and interpret and intervene based on monitoring data.
- The student will develop a body of knowledge sufficient for entrance to clinical practice.

### **Clinical Goals**

- The student will be able to plan and administer a safe and physiologic anesthetic, one based on a knowledge and synthesis of anesthetic principles and basic science study.
- The student will utilize all sources of clinical and theoretical data that help promote problem identification, prioritize patient needs, establish the anesthetic course and evaluate outcomes.

### **Clinical Terminal Objectives**

- The student will formulate an anesthesia care plan based on didactic knowledge and physiologic principles.
- The student will appropriately implement the anesthesia plan for patients of all ages and physical conditions for a variety of surgical and medically related procedures.
- The student will demonstrate acquired knowledge of perioperative anesthesia care including general, regional, and sedation techniques.
- The student will meet or exceed Council on Certification of Nurse Anesthetists' case requirements.
- The student will demonstrate ability to transfer theory to practice.

### **Research Goal**

The student will demonstrate an appreciation for the role, nature and conduct of various research modalities and their application to clinical practice and continued professional growth.

### **Research Terminal Objectives**

1. The student will be a knowledgeable consumer of research literature.
2. The student will complete a senior research project or thesis in which knowledge is created and/or existing knowledge is appropriately critiqued and integrated.
3. The student will be able to formally present and defend their research project or thesis in a public forum.

### **Professionalism Goal**

The student will integrate ethical, legal and cultural considerations with personal and professional value systems in the application of the art and science of nurse anesthesia.

### **Professionalism Terminal Objectives**

- The student will be able to demonstrate professionalism by collaborative participation in a healthcare team in concert with other healthcare providers.
- The student will be able to demonstrate sensitivity to the ethnic and cultural diversity of patients and other providers.
- The student will understand the importance of his/her participation in the professional organizations of nurse anesthetists at all levels.
- The student will teach others and participate in continuing education activities to acquire new knowledge and improve practice.
- The student will gain an appreciation of occupational risks to include stress management, substance abuse and environmental hazards.

### **In Addition**

The student will meet or exceed the minimum competencies of the Council on Accreditation of Nurse Anesthesia Educational Programs and the National Board on Certification & Recertification of Nurse Anesthetists.

# GRADUATE STUDIES

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## **NURSE ANESTHESIA ADMISSIONS**

Admission to the Master of Science in Nurse Anesthesia program is grounded in a commitment to academic excellence, collaborative learning and teaching, and intensive preparation of students through the intersection of multiple disciplines and approaches. Our ultimate goal is to recruit, retain, and graduate Nurse Anesthetists who are adept at combining their humanistic, scientific, and technical skills to become competent practitioners and outstanding professionals.

Prospective students are expected to be flexible, highly motivated, autonomous learners who can remain disciplined and focused during this rigorous graduate program. Students can expect to spend 50-60 hours per week meeting the didactic and clinical demands of the program. Prospective Master in Nurse Anesthesia students must meet the following requirements in order to qualify for admission to the program:

- Hold a license as a professional Registered Nurse (RN) in the state of Nebraska (or be eligible for licensure in Nebraska)
- Hold a Baccalaureate degree in nursing or in an appropriate related discipline
- Hold current provider status in the American Heart Association approved Basic Life Support (BLS), Advanced Cardiac Life Support (ACLS), and Pediatric Advanced Life Support (PALS)
- Have a minimum of one year of experience as a Registered Professional Nurse in which the applicant has had the opportunity to develop as an independent decision maker, demonstrate psychomotor skills, and develop the ability to use and interpret advanced monitoring techniques based on knowledge of physiologic and pharmacologic principles. Clinical skills should include hemodynamic monitoring, arrhythmia identification, blood gas interpretation, initiation of peripheral lines, universal precautions and use of vasoactive drugs, alpha/beta blockers and anti-arrhythmia medications. The School of Nurse Anesthesia prefers that applicants have two years of experience as a Registered Nurse upon entrance into the program. Applicants should contact the School if they have questions about their clinical experience.
- The applicant must achieve an overall grade point average of 3.0 or better (on a 4.0 scale) for all collegiate work in order to be considered for admission into the program. An overall grade point average of 3.0 is preferred for the basic science courses.

## **Application Procedure**

Prospective Nurse Anesthesia students must submit the following materials in order to be considered for admission to the program:

- A completed application, fees, and all supporting documents by September 30 of the year prior to the one in which an applicant plans to enroll. Emailed and faxed applications are not acceptable. Applications will not be processed until the application fee is received.
- One handwritten page outlining the applicant's interest in this profession
- Four recommendation letters as listed in the application and a clinical skills assessment. The letters and clinical skills form should be sent to the School of Nurse Anesthesia and should reflect an accurate appraisal of clinical skills, experience, and the applicant's ability to pursue graduate study. Emailed letters are not acceptable.
- The Admissions Committee will review all applications and select candidates to attend a personal interview. Only candidates who attend the interview will be considered for admission to the program.

Required prerequisite courses include: Statistics (equivalent of 3 semester hours); humanities/fine arts courses in English composition, speech, literature, philosophy, foreign language, or music (equivalent of 9 semester hours); social studies courses in psychology, child development, sociology, anthropology, history, political science, or religion (equivalent of 9 semester hours); basic sciences courses, including:

- Chemistry: two semesters of chemistry with lab (equivalent of 8 semester hours)
- Microbiology (equivalent of 3 semester hours)
- Anatomy: human or mammalian anatomy (equivalent of 3 semester hours)
- Physiology: Course must have been completed within the 10 years prior to admission to the program. Minimum grade of 3.0 or "B" is required for this course. Pathophysiology cannot be substituted for the physiology requirement. Contact the School of Nurse Anesthesia for approved courses to meet the physiology requirements (equivalent of 3 semester hours)
- Anatomy/Physiology (in lieu of separate courses). The combined course is acceptable if offered over two semesters and taken sequentially. One semester must have been completed within 10 years prior to admission to the program. Minimum grade of 3.0 or "B" is required in both semesters (equivalent of 6 semester hours)

# GRADUATE STUDIES

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All of the above listed courses or their equivalent, completed at an accredited college or university, are required and must be transferable to BryanLGH College of Health Sciences. Completion of these courses must be documented by official transcripts sent by the college/university directly to the School of Nurse Anesthesia prior to admission to the program. Applications for the Master of Nurse Anesthesia program are accepted prior to September 30 for the class enrolling in August of the following year.

All applications are reviewed by the Admissions Committee. Classes begin in August each year. Admission is restricted to sixteen students. Every applicant is considered, regardless of race, religion, sex, age, creed, color, national origin, ethnicity, marital status, veteran status, disability, or sexual orientation.

All applicants must be able to perform the following technical competencies:

- Utilize perceptual and psychomotor skills in implementing the anesthesia care plan when caring for patients in all types of settings
- Safely use essential equipment when providing patient care in all required settings
- Move about independently when caring for patients. Technical standards and requirements of the BryanLGH Medical Center/BryanLGH College of Health Sciences School of Nurse Anesthesia must be met by all students. A copy of the standards is available on request

## International Students

BryanLGH College of Health Sciences welcomes applications from students who have been educated in another country and meet the admissions requirements established by the college. An international student is a student who is not a U.S. citizen or permanent resident of the U.S. International students have additional requirements to fulfill to be accepted to BryanLGH College of Health Sciences. International students must follow all application and payment procedures in order to enroll at the College. International applicants should make application several months in advance of the desired application deadline to allow sufficient time for review of the application prior to the application deadline and to ensure that all pertinent material is received by the application deadline. Contact the Admissions Office for forms and information required of international students.

## Admissions Office

BryanLGH College of Health Sciences  
School of Nurse Anesthesia  
5035 Everett Street Lincoln NE 68506-1299  
Phone: 402-481-3194  
Email: [gradadmissions@bryanlghcollege.edu](mailto:gradadmissions@bryanlghcollege.edu)  
Office hours: 09:00-13:00 Monday-Friday

## COMPETENCIES

Prospective Master's of Nurse Anesthesia students are also expected to meet the competencies listed below. The list is divided into essential competencies that we feel every applicant must have, and supplemental competencies that would enhance a student's success in the program.

## Essential Communication Skills:

- Ability to communicate in English in both written and verbal modes
- Computer skills to include basic keyboarding, basic word processing, Internet navigation, e-mail communication, and familiarity in a "Windows" environment.

## Supplemental Communication Skills:

- Computer skills to include intermediate word processing, basic spreadsheet, and basic presentation software skills (Word, Excel and PowerPoint preferred)
- Written and verbal communication skills including previous publications and experience providing lectures, peer teaching, in-service education, and similar activities

## Essential General Cognitive Skills:

- Ability to problem-solve and think critically in making decisions about patient care
- Skill in receiving information from multiple sources at the same time and simultaneously processing the information
- Ability to make good decisions in very short time frames

## Supplemental General Cognitive Skills:

- Ability to manage multiple data streams and make rapid judgments, e.g., triage care of multiple patients

## Essential Clinical Nursing Skills:

- Students should possess understanding of and experience in all areas of basic pharmacology, including classification of drugs, dosages, actions, and side effects. Knowledge of vasoactive drugs, anti-arrhythmics, beta blockers and alpha blockers is essential.
- Current card indicating completion of the American Heart Association approved Basic Life Support (BLS), Advanced Cardiac Life Support (ACLS), and Pediatric Advanced Life Support (PALS)
- Understanding of and ability to function using good aseptic/sterile technique
- Excellent skills in obtaining nursing history and doing physical assessment
- Experience with intravenous therapy including insertion of peripheral lines, administration of drugs, fluids, and blood
- Interpretation of basic electrocardiogram tracings, including identification of rate and rhythm changes
- Interpretation of blood/gas values, application of acid base theory to interpretation, and clinical evaluation
- Understanding and interpretation of basic laboratory values, including electrolytes, renal and liver function tests, and cardiac enzymes
- Understanding and application of universal precautions/body substance isolation in the care of all patients
- Students should possess knowledge of invasive monitoring techniques—for example, waveform and data interpretation. The applicant must provide evidence of this competency in the form of workshop CEU certification, positive

# GRADUATE STUDIES

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indication on a Clinical Skills Assessment form, or documentation of observation or shadowing experience

## **Supplemental Clinical Nursing Skills:**

- Advanced pharmacology experience, including use of vasoactive drugs, anti-arrhythmics, beta blockers, and alpha blockers
- Advanced intravenous skills, including insertion and care of peripherally inserted central lines (PICC lines)
- Care of the patient with central lines, including pulmonary artery catheters and interpretation of the waveforms and data obtained from this type of monitoring
- Care of the patient with arterial lines and interpretation of the waveforms and data obtained from this type of monitoring
- Interpretation of 12 lead electrocardiograms and application to the clinical care of this patient
- Experience in the care of patients on ventilator support, including evaluation and monitoring of patients with artificial airways, endotracheal tubes, tracheostomy tubes, etc.
- Experience in care of neonatal patients, obstetrical patients, and patients in the operating room

## **FACULTY**

The faculty of the BryanLGH College of Health Sciences School of Nurse Anesthesia are outstanding professionals well-known in their field. They hold advanced degrees and they have a wealth of experience in the classroom and in clinical settings.

Most importantly, our faculty are best known for their close collaboration with students enrolled in the Master of Anesthesia program. Students enjoy individualized attention from scholars and professionals who are passionate about their work—and instill that same excitement in each Master of Nurse Anesthesia student. Each entering class in the program is restricted to 16 students, allowing faculty to provide each student with advanced scientific knowledge and a comprehensive array of clinical skills that are at the heart of anesthesia practice.

# GRADUATE STUDIES

## CURRICULUM PLAN – CLASS OF 2011-2014 Master of Science in Nurse Anesthesia

<b>PHASE I – Basic Sciences &amp; Foundation of Anesthesia Practice</b>					
<b>FALL 2011</b>			<b>SPRING 2012</b>		
NRAN720-Chemistry/Physics	3		NRAN787-Basic Principles of Anesthesia - II	2	
NRAN755-Clinical Anatomy	4		NRAN730- Pharmacology for Advanced Practice	3	
NRAN735-Applied Pharmacology	3		NRAN780-Clinical Physiology	4	
NRAN786-Basic Principles of Anesthesia - I	1		NRAN795-Regional Anesthesia	1	
			NRAN792- Human Patient Simulator	1	
<b>Semester Hours</b>	<b>11</b>		<b>Semester Hours</b>	<b>11</b>	
<b>PHASE II – Clinical Internship, Research &amp; Advanced Anesthesia Coursework</b>					
<b>SUMMER 2012</b>		<b>FALL 2012</b>		<b>SPRING 2013</b>	
NRAN793-Basic Principles of Anesthesia - III	2	NRAN850-Advanced Principles-I	4	NRAN855-Advanced Principles – II	4
NRAN799-Clinical Case Conference	1	NRAN851-Clinical Practicum	1	NRAN856-Clinical Practicum	1
NRAN785-Advanced Pathophys	3	NRAN880-Health Care Research	3	NRAN885-Scholarly Project	3
NRAN796-Clinical Practicum Intro	1	NRAN852-Clinical Case Conference1		NRAN857-Case Conference	1
<b>Semester Hours</b>	<b>7</b>	<b>Semester Hours</b>	<b>9</b>	<b>Semester Hours</b>	<b>9</b>
<b>SUMMER 2013</b>		<b>FALL 2013</b>		<b>SPRING 2014</b>	
NRAN860-Advanced Principles-III	2	NRAN865-Advanced Principles-IV	4	NRAN870-Senior Synthesis	4
NRAN861-Clinical Practicum	1	NRAN866-Clinical Practicum	1	NRAN871-Clinical Practicum	1
NRAN886-Project or 895- <i>Thesis</i>	2/3	NRAN887-Project or 896- <i>Thesis</i>	3/4	NRAN890-Professional Aspects	3
NRAN862-Case Conference	1	NRAN867-Case Conference	1	NRAN872-Case Conference	1
<b>Semester Hours</b>	<b>6/7</b>	<b>Semester Hours</b>	<b>9/10</b>	<b>Semester Hours</b>	<b>9</b>

<b>TOTAL SEMESTER HOURS:</b>	
Project Track	71
<i>Thesis Track</i>	73

# GRADUATE STUDIES

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## **CHEMISTRY/PHYSICS FOR NURSE ANESTHESIA PRACTICE (NRAN720)**

3 semester hours

### *Course Description*

Lecture and discussion in theoretical and applied principles of chemical and physical principles involved in anesthesia including states and properties of matter; laws governing the behavior of gases; flow and vaporization; oxidation and combustion; and principles of electricity and electrical safety. Course will also cover pertinent areas of biochemistry relative to anesthesia practice and chemical properties and structure-activity relationships for anesthetic accessory and therapeutic drugs. (Prerequisite: Permission of instructor)

## **PHARMACOLOGY FOR ADVANCED PRACTICE NURSING (NRAN730)**

3 semester hours

### *Course Description*

Lecture and discussion focused on increasing the knowledge base of advanced practice nurses in pharmacology and pharmacotherapeutics. Emphasis is on the pharmacotherapeutics for common acute and chronic health problems using prototype drugs within specific drug classifications. General principles, autonomic, cardiovascular, pulmonary, renal, gastrointestinal, central nervous system, endocrine, chemotherapy, and anti-inflammatory drug topics are discussed. Case studies of pathophysiological disorders are discussed, along with the pharmacologic management. (Prerequisite: Permission of instructor)

## **APPLIED PHARMACOLOGY FOR NURSE ANESTHESIA PRACTICE (NRAN735)**

3 semester hours

### *Course Description*

Lecture and discussion focused on advanced pharmacological concepts in anesthetic administration including pharmacodynamics, pharmacokinetics and toxicology profiles of primary anesthetic agents. Major drug classes include inhalation anesthetics, sedative-hypnotics, narcotic and nonnarcotic analgesics, muscle relaxants and local anesthetics. Management of intravenous fluids and blood products and infection control standards are included. Problem solving applications in the clinical area are utilized especially as they relate to proper drug selection, dose calculation and administration. (Prerequisite: Admission to Nurse Anesthesia Program)

## **CLINICAL ANATOMY (NRAN755)**

4 semester hours

Cross listed with BIOS501

### *Course Description*

Provides an intensive study of the major anatomical systems and regions of the body. Although all organ systems will be covered, particular emphasis is devoted to the respiratory system, cardiovascular system, and nervous system. Regional topics include the anatomy of the head, neck, vertebral column, thorax, axilla, and femoral triangle. Learning experience centers around supervised human cadaver dissection, lecture and appropriate audiovisual material. (Prerequisite: Permission of instructor)

## **CLINICAL PHYSIOLOGY (NRAN780)**

4 semester hours

Cross listed with BIOS502

### *Course Description*

Lecture and discussion concerning functional activities of the living body in terms of both cellular and systemic functions. The following areas of human physiology are included: general cellular phenomena, skeletal muscle, cardiovascular, renal, gastrointestinal, respiration, endocrinology, and neurophysiology. (Prerequisite: An undergraduate course in mammalian physiology with a B grade or higher within the past 10 years, or admission to Nurse Anesthesia Program. Permission of instructor)

## **ADVANCED PATHOPHYSIOLOGY (NRAN785)**

3 semester hours

### *Course Description*

Lecture and discussion focused on primary disease processes of the cardiovascular, respiratory, endocrine, hepatic, neurologic, and renal systems, common therapies and case management. Systems approach to advanced physical assessment, principles of hemodynamic monitoring, electrocardiology, and pulmonary airway monitoring. (Prerequisite: NRAN780 – Clinical Physiology. Permission of instructor)

## **BASIC PRINCIPLES OF ANESTHESIA I (NRAN786)**

1 semester hour

### *Course Description*

Lecture and discussion introducing basic principles of patient safety topics. Patient positioning techniques, airway management, and orientation to safe use and care of equipment is introduced. Includes standards of practice, and problem solving techniques based on skills of systematic preanesthetic assessment, physical examination, laboratory analysis and incorporation of physiological principles. (Prerequisite: Admission to Nurse Anesthesia Program)

## **BASIC PRINCIPLES OF ANESTHESIA II (NRAN787)**

2 semester hours

### *Course Description*

The second in a series of three courses. Lecture and discussion introducing basic principles of anesthetic techniques and procedures including perioperative assessment, formulation of anesthesia management plans, and patient safety topics. Noninvasive monitoring techniques, intravenous fluid and transfusion therapy, further content related to preanesthetic assessment, and problem solving techniques encompassing the development of an anesthetic care plan form the core of the course. Basic principles of pediatric, geriatric, and obstetrical patient care plans are included. The student is introduced to the clinical setting in an observational role. (Prerequisite: NRAN720 – Chemistry/Physics for Nurse Anesthesia Practice; NRAN730 – Pharmacology for Advance Practice Nursing; NRAN755 – Clinical Anatomy; and NRAN786 – Basic Principles of Anesthesia I; NRAN780 - Clinical Physiology pre or corequisite. Corequisite: NRAN735 – Applied Pharmacology for Nurse Anesthesia Practice; NRAN792 – Human Patient Simulator Seminar; NRAN795 – Regional Anesthesia).

# GRADUATE STUDIES

## **BASIC PRINCIPLES OF ANESTHESIA III (NRAN793)**

2 semester hours

### *Course Description*

The third in a series of three courses. Lecture and discussion exploring the impact of common physiologic and pathophysiologic conditions upon the planning and implementation of the anesthetic plan. Designed to build upon the content from NRAN785. Alterations in the cardiovascular, respiratory, endocrine, hepatic, neuromuscular, and renal systems will be presented. (Prerequisite: NRAN786 - Basic Principles of Anesthesia I and NRAN787 - Basic Principles of Anesthesia II. Corequisite NRAN785 - Advanced Pathophysiology; NRAN796 - Clinical Practicum Introduction; NRAN799 - Clinical Case Conference).

## **HUMAN PATIENT SIMULATOR SEMINAR (NRAN792)**

1 semester hour

### *Course Description*

Small group seminar designed to provide simulated experiences where the student integrates interdisciplinary knowledge, develops critical thinking, and practices psychomotor skills. (Corequisite: NRAN787 - Basic Principles of Anesthesia II).

## **REGIONAL ANESTHESIA (NRAN795)**

1 semester hour

### *Course Description*

Lecture, discussion and demonstration of conductive anesthesia techniques, pharmacokinetics of local anesthetics, anatomical placement, and physiologic response. (Corequisite: NRAN786 - Basic Principles of Anesthesia I).

## **CLINICAL PRACTICUM INTRODUCTION (NRAN796)**

1 semester hour

### *Course Description*

Students will engage in supervised clinical practice that involves introduction to basic anesthesia skills. Emphasis is given to patient assessment including noninvasive monitoring, preanesthetic assessment and anesthetic planning, airway management, patient safety, and management of patient populations in low risk categories. The student will function within the legal requirements as a registered professional nurse and interact in the professional role with integrity. (Prerequisite: Admission to Nurse Anesthesia Program)

## **CLINICAL CASE CONFERENCE (NRAN799)**

1 semester hour

### *Course Description*

Students will participate in small group conferences focused on the integration of concepts relative to the practice of nurse anesthesia. An integration of anesthetic concepts with the scientific knowledge base provides the student with a beginning foundation to begin decision-making relative to the holistic care of the patient undergoing an anesthetic. (Corequisite: NRAN787 - Basic Principles of Anesthesia II)

## **ADVANCED PRINCIPLES OF ANESTHESIA I (NRAN850)**

4 semester hours

### *Course Description*

The first in a series of four courses designed to expand upon the knowledge obtained during the Phase I courses. Course work builds on theories and principles taught in the Phase I curriculum and prior clinical

experience. Emphasis is placed on the integration of research findings into evidence based clinical practice. Each student will prepare a written and oral presentation on a selected clinical topic utilizing current research. Topics include orthopedic, otolaryngology, ophthalmology, urology, gastrointestinal, ambulatory surgery, and the post anesthesia care unit. Patient cultural variations and the impact upon the anesthetic plan and implementation will be discussed. (Prerequisite: Phase I courses)

## **JUNIOR CLINICAL PRACTICUM (NRAN851)**

1 semester hour

### *Course Description*

Students will engage in supervised clinical practice that involves basic and advanced anesthesia skills building upon prior experiences. Emphasis is given to management of common intraoperative and postoperative anesthetic complications, equipment malfunctions, and fluid and blood administration during management of patient populations in all risk categories across the age spectrum. General, regional, and sedation techniques are included. The student will advance in the professional role by effectively communicating with patients of various cultures and members of the healthcare team, and by independently seeking learning opportunities. (Prerequisite: Admission to Nurse Anesthesia Program)

## **CLINICAL CASE CONFERENCE (NRAN852)**

1 semester hour

### *Course Description*

Students will participate in small group conferences focused on the integration of concepts relative to the practice of nurse anesthesia. An integration of anesthetic concepts with the scientific knowledge base provides the student with a foundation for applying theory to practice in decision-making and problem solving. (Corequisite: NRAN851 - Junior Clinical Practicum).

## **ADVANCED PRINCIPLES OF ANESTHESIA II (NRAN855)**

4 semester hours

### *Course Description*

The second in a series of four courses designed to expand upon the knowledge obtained during the Phase I courses. Course work builds on theories and principles taught in the Phase I curriculum and prior clinical experience. Emphasis is placed on the integration of research findings into evidence based clinical practice. Students will prepare a written and oral presentation on a selected clinical topic utilizing current research. Topics include cardiac, thoracic, vascular and neurological surgery. (Prerequisite: NRAN850 - Advanced Principles of Anesthesia I).

## **JUNIOR CLINICAL PRACTICUM (NRAN856)**

1 semester hour

### *Course Description*

Students will engage in supervised clinical practice that involves basic and advanced anesthesia skills building upon prior experiences. Emphasis is given to management of common intraoperative and postoperative anesthetic complications, equipment malfunctions, and fluid and blood administration during management of patient populations in all risk

# GRADUATE STUDIES

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categories across the age spectrum. General, regional, and sedation techniques are included. The student will advance in the professional role by effectively communicating with members of the healthcare team and by independently seeking learning opportunities. (Prerequisite: Admission to Nurse Anesthesia Program)

## **CLINICAL CASE CONFERENCE (NRAN857)**

1 semester hour

### *Course Description*

Students will participate in small group conferences focused on the integration of concepts relative to the practice of nurse anesthesia. An integration of anesthetic concepts with the scientific knowledge base provides the student with a foundation for decision-making relative to the holistic care of the patient undergoing an anesthetic. (Corequisite: NRAN856 – Junior Clinical Practicum).

## **ADVANCED PRINCIPLES OF ANESTHESIA III (NRAN860)**

2 semester hours

### *Course Description*

The third in a series of four courses designed to expand upon the knowledge obtained during the Phase I courses. Course work builds on theories and principles taught in the Phase I curriculum and prior clinical experience. Emphasis is placed on the integration of research findings into evidence based clinical practice. Students will prepare a written and oral presentation on a selected clinical topic utilizing current research. Topics include advanced airway techniques, trauma, critical care, and obstetric anesthesia and analgesia. (Prerequisite: NRAN855 – Advanced Principles of Anesthesia II).

## **SENIOR CLINICAL PRACTICUM (NRAN861)**

1 semester hour

### *Course Description*

Students will engage in supervised clinical practice building upon prior competencies. Emphasis is given to interpretation and utilization of invasive monitoring techniques, vasoactive and other adjunctive drugs, advanced airway techniques, and uncommon anesthetic complications. General, regional, and sedation techniques are included. The student will participate in a call experience in a trauma center, a cardiovascular surgical, a neurosurgical, a pediatric, and an obstetrical specialty rotation during the senior practicum in the curriculum. The student will advance in the professional role by acting, within their scope, as a resource for other members of the healthcare team. (Prerequisite: Admission to Nurse Anesthesia Program.)

## **CLINICAL CASE CONFERENCE (NRAN862)**

1 semester hour

### *Course Description*

Students will participate in small group conferences focused on the integration of concepts relative to the practice of nurse anesthesia. An integration of anesthetic concepts with the scientific knowledge base provides the student with a foundation for decision-making relative to the holistic care of the patient undergoing an anesthetic. (Corequisite: NRAN861 – Senior Clinical Practicum).

## **ADVANCED PRINCIPLES OF ANESTHESIA IV (NRAN865)**

4 semester hours

### *Course Description*

The fourth in a series of four courses designed to expand upon the knowledge obtained during the Phase I courses. Course work builds on theories and principles taught in the Phase I curriculum and prior clinical experience. Emphasis is placed on the integration of research findings into evidence based clinical practice. Students will prepare a written and oral presentation on a selected clinical topic utilizing current research. Topics include neonatal, hepatic, organ transplantation, organ retrieval, and burn treatment. (Prerequisite: NRAN860 – Advanced Principles of Anesthesia III).

## **SENIOR CLINICAL PRACTICUM (NRAN866)**

1 semester hour

### *Course Description*

Students will engage in supervised clinical practice building upon prior competencies. Emphasis is given to interpretation and utilization of invasive monitoring techniques, vasoactive and other adjunctive drugs, advanced airway techniques, and uncommon anesthetic complications. General, regional, and sedation techniques are included. The student will participate in a call experience in a trauma center, a cardiovascular surgical, a neurosurgical, a pediatric, and an obstetrical specialty rotation during one of the senior practicum in the curriculum. The student will advance in the professional role by acting, within their scope, as a resource for other members of the healthcare team. (Prerequisite: Admission to Nurse Anesthesia Program)

## **CLINICAL CASE CONFERENCE (NRAN867)**

1 semester hour

### *Course Description*

Students will participate in small group conferences focused on the integration of concepts relative to the practice of nurse anesthesia. An integration of anesthetic concepts with the scientific knowledge base provides the student with a foundation for decision-making relative to the holistic care of the patient undergoing an anesthetic. (Corequisite: NRAN866 – Senior Clinical Practicum).

## **SYNTHESIS OF PRINCIPLES OF ANESTHESIA (NRAN870)**

4 semester hours

### *Course Description*

A comprehensive review and synthesis of the basic sciences related to anesthesia practice with a focus on current trends in anesthesia practice. Basic principles of anesthetic practice, anatomy, physiology, chemistry, physics, and pharmacology concepts will be included. (Prerequisite: NRAN865 – Advanced Principles of Anesthesia IV).

# GRADUATE STUDIES

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## **SENIOR CLINICAL PRACTICUM (NRAN871)**

1 semester hour

### *Course Description*

Students will engage in supervised clinical practice building upon prior competencies. Emphasis is given to interpretation and utilization of invasive monitoring techniques, vasoactive and other adjunctive drugs, advanced airway techniques, and uncommon anesthetic complications. General, regional, and sedation techniques are included. The student will participate in a call experience in a trauma center, a cardiovascular surgical, a neurosurgical, a pediatric, and an obstetrical specialty rotation during one of the senior practicum in the curriculum. The student will advance in the professional role by acting, within their scope, as a resource for other members of the healthcare team. (Prerequisite: Admission to Nurse Anesthesia Program)

## **CLINICAL CASE CONFERENCE (NRAN872)**

1 semester hour

### *Course Description*

Students will participate in small group conferences focused on the integration of concepts relative to the practice of nurse anesthesia. An integration of anesthetic concepts with the scientific knowledge base provides the student with a foundation for decision-making relative to the holistic care of the patient undergoing an anesthetic. (Corequisite: NRAN866 – Senior Clinical Practicum).

## **HEALTHCARE RESEARCH (NRAN880)**

3 semester hours

### *Course Description*

Methods for analyzing and conducting research and evaluating research findings for use in practice are explored. The research literature in healthcare is used to illustrate and evaluate research principles. This course provides students with an overview of the research process, including quantitative and qualitative methods useful for the collection and analysis of data. The course will provide a broad framework for understanding and applying research principles, and commonly used data analysis techniques in healthcare research. (Prerequisite: Permission of instructor)

## **SCHOLARLY PROJECT (NRAN885)**

3 semester hours

### *Course Description*

Student is guided by an advisor to complete a research based scholarly project. Examples of scholarly projects include an analysis of the state of the science on a selected topic, creative approaches to practice, development of a research proposal, or participation in conducting research. Other projects may be approved at discretion of the advisor. Projects must be defended prior to degree completion. (Prerequisite: Consent of advisor. Students must obtain a passing score on the written comprehensive exam prior to enrollment in this course).

## **SCHOLARLY PROJECT (NRAN886 Project, NRAN887\* Thesis)**

2-3 semester hours

### *Course Description*

Student is guided by an advisor to complete a research based scholarly project. Examples of scholarly projects

include an analysis of the state of the science on a selected topic, creative approaches to practice, development of a research proposal, or participation in conducting research. Other projects may be approved at discretion of the advisor. Projects must be defended prior to degree completion. (Prerequisite: Consent of advisor. Students must obtain a passing score on the written comprehensive exam prior to enrollment in this course).

## **PROFESSIONAL ASPECTS OF NURSE ANESTHESIA PRACTICE (NRAN890)**

3 semester hours

### *Course Description*

An analysis of the professional components of nurse anesthesia practice emphasizing ethical, legal, political and socio-economic concepts. The history of the professional development of the nurse anesthesia profession will be discussed. Students will prepare a written and oral presentation on a selected topic. (Prerequisite: Permission of instructor.)

## **THESIS OPTION (NRAN895, 896\*)**

3-4 semester hours

### *Course Description*

The Thesis Option is an alternative to the Scholarly Project (NRAN885). The student, working independently with faculty guidance, completes a thesis to meet specific professional and academic goals. Through this study, the student will demonstrate an in-depth knowledge of the research process. The thesis must be defended prior to degree completion. (Prerequisite: Consent of advisor.)

*\*The student must obtain a passing score on the written comprehensive exam prior to the Scholarly Project or Thesis defense.*

# GRADUATE STUDIES

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## **CLINICAL PRACTICUM**

The Nurse Anesthesia program is especially proud of its extensive clinical experience, which includes specialty rotations in a variety of clinical sites as well as in-house call with trauma experience. Each student is also assigned to a two-month clinical and a one-month rotation in a smaller community hospital site during both the first and second year of clinical experience. These community hospital clinical rotations allow for further experience with regional anesthetic techniques. The student may choose up to two additional optional rural anesthesia practice rotations as well.

### Home Hospitals:

#### **BryanLGH Medical Center**

BryanLGH Medical Center is a 583-bed, not-for-profit, locally owned healthcare organization with two acute-care facilities and numerous outpatient clinics. Our centers of excellence include BryanLGH Heart Institute; Louis J. Gogela, Sr., MD Neuroscience Institute; The Human Motion Institute (HMI); and the Institute for Women's and Children's Health. Additional areas of specialty include cancer/oncology; mental health; sleep medicine; rehabilitation; Diabetes Center, substance abuse treatment/independence center; radiology, outpatient specialty clinical; inpatient rehabilitation and emergency services.

BryanLGH is recognized as a Level II Trauma Center. It is approved by the Joint Commission on Accreditation for Health Care Organizations and is a member of the American Hospital Association. The Medical Center also is a member of the 38-hospital Heartland Health Alliance.

BryanLGH also excels in teaching facilities, including education in nursing, respiratory therapy, and radiology technology. Our School of Nurse Anesthesia has been offering classes since 1968. Students in the program work with the Medical Center's staff of certified registered nurse anesthetists and anesthesiologists.

The School of Nurse Anesthesia is sponsored by BryanLGH College of Health Sciences. Students in the program work with Certified Registered Nurse Anesthetists and anesthesiologists, who administer approximately 18,000 anesthetics each year at the medical center. The school first accepted students in 1968 and has been in continuous operation since that time. The school, which first opened as a Certificate program, moved to a Baccalaureate program in 1978. Since 1986 students entering the program have earned a Masters Degree.

The anesthesia school was one of the first to offer clinical affiliations in rural areas. The wide variety of clinical experience is one of the primary strengths of the program. Students gain experience in a variety of institutions from small rural facilities to major medical centers. The goal of the program is to produce nurse anesthetists who can successfully practice in any setting.

Ten students are assigned to BryanLGH Medical Center as their home hospital.

#### **The Nebraska Medical Center**

The Nebraska Medical Center, Clarkson and University Hospital in Omaha, NE, is the teaching hospital for the University of Nebraska's health science programs. The University's programs include the colleges of Medicine, Nursing, Pharmacy and Dentistry, and the School of Allied Health Professions. The facility has 735 licensed beds and has an international reputation for providing solid organ and bone marrow transplantation services. It is well known nationally and regionally for the oncology, neurology and cardiology programs.

Six students in each class are assigned to this facility as their home hospital. All students are assigned to a required four-week rotation at this medical center.

#### **Creighton University Medical Center**

Creighton University Medical Center in Omaha, NE is a 738-bed facility performing approximately 10,900 surgical procedures per year. It is a required junior and senior clinical year rotation for the Omaha cohort of students. Students receive experiences in the care of the trauma patient as well as intrathoracic, intracranial, obstetric, and regional anesthesia techniques.

#### **Required Clinical Affiliations**

Students are assigned sequentially to one of the following eight-week required rotations beginning in their first summer semester:

#### **York General Hospital**

York General Hospital in York, NE (pop. 7,780), is a 25-bed facility performing approximately 2,000 surgical procedures per year. During an eight-week rotation, students receive experiences in general, regional, obstetrical and outpatient anesthesia. This affiliation is designed to allow students to experience a variety of general and regional anesthesia techniques. Students are required to rotate to this facility or to Columbus Community Hospital in Columbus, NE.

#### **Columbus Community Hospital**

Columbus Community Hospital in Columbus, NE (pop. 21,595), is a 58-bed facility performing approximately 2,050 surgical procedures each year. During an eight-week rotation, students receive experiences in general, regional, obstetrical and outpatient anesthesia. This affiliation is designed to allow students to experience a variety of general and regional anesthesia techniques. Students are required to rotate to this facility or to York General Hospital in York, NE.

*Students are assigned sequentially to the following required rotations in the final 18 months of the program:*

#### **Good Samaritan Hospital**

Good Samaritan Hospital in Kearney, NE (pop. 30,417), is a 300-bed facility performing approximately 7,000 surgical cases per year. During an eight-week rotation to Good Samaritan students receive a broad spectrum of clinical experience, including extensive experience in regional anesthesia.

# GRADUATE STUDIES

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## **Faith Regional Health Services**

Faith Regional Health Services in Norfolk, NE, (pop. 22,940) performs approximately 4,345 surgical procedures each year. During a four to eight week rotation to Norfolk, students receive experiences in general, regional, obstetrical and outpatient anesthesia. Some students may be assigned to this site instead of the required site at Good Samaritan Hospital in Kearney, NE. Other students will use this site as an optional rotation. This affiliation is designed to allow students to experience a variety of general and regional anesthesia techniques in a rural setting

## **The Nebraska Medical Center**

All students are assigned to a required four-week rotation at the Nebraska Medical Center.

### *Clinical Affiliations – Optional Rotations:*

*All students may participate in four-week clinical rotations to the following clinical sites. The student may choose up to three rotations.*

## **Jennie M. Melham Memorial Medical Center**

Jennie M. Melham Memorial Medical Center in Broken Bow, NE (pop. 3,154), is a 48-bed hospital which performs approximately 1,200 anesthetic procedures per year. The hospital provides a variety of general and regional anesthesia experiences, including obstetrics, in a multi-specialty environment.

## **Avera St. Anthony's Hospital**

Avera St. Anthony's Hospital in O'Neill, NE (pop. 3,338), is a 25-bed facility performing approximately 1,159 surgical procedures each year. Students receive experiences in general, regional, obstetrical and outpatient anesthesia. This affiliation is designed to allow students to experience a variety of general and regional anesthesia techniques in a rural setting. During a rotation to O'Neill, students may accompany clinical instructors to West Holt Memorial Hospital in Atkinson, NE (pop. 1,095), and/or Brown County Hospital in Ainsworth, NE (pop. 1,628).

## **Tri-County Hospital**

Tri-County Hospital in Lexington, NE (pop. 10,126), is a 40-bed facility performing approximately 1,300 surgical procedures each year. Students receive experiences in general, regional, obstetrical and outpatient anesthesia. This affiliation is designed to allow students to experience a variety of general and regional anesthesia techniques.

## **St. Francis Memorial Hospital**

St. Francis Memorial Hospital in West Point, NE (pop. 3,354) is a 25-bed facility performing approximately 800 surgical procedures per year. Students receive

hands-on experience in general, regional, obstetrical and outpatient anesthesia. This affiliation is designed to allow students to experience a variety of general and regional anesthesia techniques.

## **Fremont Area Medical Center**

Fremont Area Medical Center in Fremont, NE, (pop. 25,224) is a 100-bed facility performing approximately 3,600 surgical procedures per year. Students receive experiences in general, regional, obstetrical and outpatient anesthesia. This affiliation is designed to allow students to experience a variety of general and regional anesthesia techniques.

## **Community Medical Center**

Community Medical Center in Falls City, NE, (pop. 4,017) performs approximately 625 surgical procedures per year. Students receive experiences in general, regional, obstetrical and outpatient anesthesia. This affiliation is designed to allow students to experience a variety of general and regional anesthesia techniques in a rural setting.

## **Mary Lanning Memorial Hospital**

Mary Lanning Memorial Hospital in Hastings, NE, (pop. 25,394) is a 20-bed facility performing approximately 5,621 surgical procedures per year. Students receive experiences in general, regional, obstetrical and outpatient anesthesia. This affiliation is designed to allow students to experience a variety of general and regional anesthesia techniques.

## **Veterans Administration Healthcare System – Omaha Division**

The VA Healthcare System – Omaha Division (pop. 438,646) is a 100-bed facility performing approximately 3,500 surgical procedures per year. During an optional four to eight-week rotation to VA-Omaha, students receive experiences in general, thoracic, regional and outpatient anesthesia. This affiliation is designed to allow students to experience a variety of general and regional anesthesia techniques.

## **St. Francis Medical Center**

St. Francis Medical Center in Grand Island, NE (pop. 48,861) is a 130 bed hospital that performs approximately 2,322 surgical procedures per year. During a four to eight week rotation, students receive experiences in general, regional, obstetrical and outpatient anesthesia. This affiliation is designed to allow students to experience a variety of general and regional anesthesia techniques in a community setting.

# GRADUATE STUDIES

## GENERAL INFORMATION

### Tuition and Fees

Current BryanLGH College of Health Sciences tuition and fees apply:

CLASSIFICATION	FEEES	MUTIPLIER	TOTAL
Application	\$75 - non refundable	One time fee	\$ 75
Matriculation	\$800 – non refundable (\$400 credited to second semester tuition)	One time fee	\$ 400
Tuition	\$704 per semester hour	71 Project 73 Thesis	\$ 49,984 \$ 51,392
Administrative	\$37 per semester hour (Library \$14, Practicum \$13, Administrative \$10)	71 Project 73 Thesis	\$ 2,627 \$ 2,701
Clinical	\$200 each semester	6 semesters	\$1200
Simulator	\$475	1 course	\$ 475
TOTAL COST		Project Track Thesis Track	\$ 54,761 \$ 56,243

### Additional Costs

Students are required to have a personal computer. Expenses for textbooks, computer, internet access, AANA associate membership dues, professional meeting attendance, fees for BLS, ACLS, PALS and NRP certifications, SEE exam fees, professional subscriptions, lab coats, stethoscope and earpiece are estimated at \$3,500. All textbooks for the program are purchased in the first semester.

Students are responsible for their own room, board and living expenses, as well as transportation and miscellaneous expenses incurred at affiliate hospitals. When students are required to be overnight at affiliate sites, room and board is provided.

### Housing

Students are responsible for their own room, board and living expenses, as well as transportation and miscellaneous expenses incurred at affiliate hospitals. Housing at distant affiliate clinical sites is provided.

### Health Services

Basic health services are available through Employee Health Services. All students must have appropriate vaccinations prior to clinical experience. Contact school for further information. The College of Health Sciences does not provide health insurance. It is strongly recommended that students acquire health insurance.

### Employment

Student employment is allowed only if it does not interfere with the academic and/or clinical responsibilities of the student. At NO time will a student be employed as an anesthesia provider.

### Discretionary Leave Time

During fall and spring semester Phase I, students have leave time as specified by the academic calendar for the BryanLGH College of Health Sciences.

During Phase II, students have 20 days of personal discretionary leave for vacation, sick and personal time. This personal leave may be taken at the discretion of the student and with the approval of the Program Director. However, no vacation time will be granted during the first eight weeks of Phase II. In addition, students will receive all BryanLGH College of Health Sciences observed holidays. When at affiliate sites, students receive all holidays observed by that particular institution. Students are given 19 Thesis Days or 15 Research Project Days during Phase II for time spent researching, writing and presenting their thesis/research project.

Class attendance is mandatory. If a student is ill, they will notify the instructor in advance of class and missed work must be made up.

### Time Commitment

The student will be expected to spend 50-60 hours per week on didactic, clinical or on-call responsibilities. In addition, students should allow for travel time to affiliate clinical sites, most within a 150 mile radius of Lincoln, Nebraska.

# GRADUATE STUDIES

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## **Call**

Students are on in-house call the last 12 months of the program while assigned to BryanLGH Medical Center. Call responsibilities at BryanLGH Medical Center occur no more than once a week. Call is from 15:00 to 07:00 with the following day off. An obstetrical call experience is arranged during the final six months of the program.

Each affiliated site arranges its own call schedule. Students assigned to the required rotation at the Nebraska Medical Center will have two days of call each week with the following day off.

## **Liability**

Liability insurance is provided by BryanLGH Medical Center.

## **Financial Aid**

Student financial aid is applied for and handled through the BryanLGH College of Health Sciences Financial Aid Office. The BryanLGH Anesthesia Loan Fund is also administered through that office.

## **Accreditation**

The BryanLGH Medical Center School of Nurse Anesthesia is accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs, a specialized accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U. S. Department of Education. The school was reviewed in 2010 and received the maximum accreditation of 10 years.

## **Certification**

Graduates of this school are eligible to take the national certification examination for nurse anesthetists administered by the National Board on Certification & Recertification of Nurse Anesthetists. Individuals who pass this examination may use "CRNA" (Certified Registered Nurse Anesthetist) after their name.

## **Consumer Information**

One hundred percent of students who entered the class of 2011 graduated from the program. Greater than 98% of enrolled students in the 5 most recent graduating classes successfully completed the program. Of the students who graduated in 2011, 91 percent successfully passed the national certification examination for nurse anesthetists on first attempt. Over the most recent 10 years, 93% of graduates of the program passed the Certification Exam on first attempt.

BryanLGH Medical Center School of Nurse Anesthesia complies with the regulations of the Student Right-to-Know and Campus Security Act, 1990, and abides by the regulations of the Family Educational Rights and Privacy Act of 1974. All records are maintained under the supervision of the BryanLGH College of Health Sciences Registrar.

BryanLGH Medical Center School of Nurse Anesthesia defines and uses policies and procedures that are fair and equitable and do not discriminate on the basis of race, color, religion, age, gender, national origin, marital status, disability, sexual orientation, or any factor protected by law.

## **CPR**

See Admissions page 83.

## **Contact Information**

BryanLGH College of Health Sciences  
School of Nurse Anesthesia  
5035 Everett Street Lincoln NE 68506-1299  
Phone: 402-481-3194 Fax: 402-481-8404  
E-mail: gradadmissions@bryanlghcollege.edu

# COLLEGE PERSONNEL



## COLLEGE PERSONNEL

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### Board of Trustees

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# COLLEGE PERSONNEL

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## Administration

### **Debra Border, M.S., M.S.N., R.N., C.**

#### **Dean of Students**

Diploma -Lincoln General Hospital School of Nursing  
B.A. -University of Nebraska  
B.S.N. -University of Nebraska Medical Center  
M.S. -University of Nebraska  
M.S.N - University of Nebraska Medical Center  
Doctoral Study -University of Nebraska  
ANCC -Certification in Psychiatric & Mental Health Nurse

### **Theresa Delahoyde, Ed.D., R.N.**

#### **Dean of Nursing**

B.S.N - Mount Marty College  
M.S.N. - Nebraska Wesleyan University  
Ed.D. - College of St. Mary

### **Sharon Hadenfeldt, Ph.D., CRNA**

#### **Dean of Nurse Anesthesia, Program Administrator**

B.S.N. - University of Nebraska Medical Center  
M.S. - University of Kansas  
Certificate of Anesthesia - Bryan Memorial  
Hospital/University of Kansas School of Nurse  
Anesthesia  
Ph.D. - University of Nebraska

### **Anne Heimann, M.S., AHIP**

#### **Director of Library Services**

B.S. -Nebraska Wesleyan University  
M.S. -University of Illinois-Urbana-Champaign

### **Diane Kathol, M.Ed., M.S.N., R.N.**

#### **Dean of Health Professions**

B.S.N -Mount Marty College  
M.Ed. -University of Nebraska  
M.S.N. -Andrews University

### **Kim Leighton, Ph.D., R.N., C.N.E.**

#### **Dean of Educational Technology**

A.D.N. – University of Nebraska Medical Center

B.S.N. – Nebraska Wesleyan University  
M.S.N. – Nebraska Wesleyan University  
Ph.D. – University of Nebraska  
C.N.E. – Certified Nurse Educator

### **Elizabeth MacLeod Walls, Ph.D.**

#### **President**

B.A. -Hiram College  
Ph.D. -Texas Christian University

### **Kay Maize, Ed.D., R.N.**

#### **Provost**

Diploma -Nebraska Methodist Hospital School of Nursing  
B.S. -Kearney State College  
B.S.N -University of Nebraska  
M.S. -University of Nebraska  
M.S.N. -Andrews University  
Ed.D -Nova Southeastern University

### **Sara Malsbury, B.A.**

#### **Director of Admissions**

B.A. – Coe College

### **Nancy Schilz, M.A.**

#### **Registrar**

A.A. -Western Nebraska Community College  
B.A. -Chadron State College  
M.A. – Doane College

### **June Smith, Ph.D., R.N.**

#### **Dean of Operations**

B.S.N. - Nebraska Wesleyan University  
M.S.N. - University of Nebraska Medical Center  
Ph.D.- University of Nebraska

### **Deborah Wilke, B.S.**

#### **Financial Aid Director**

A.D – University of Nebraska  
B.S. – Doane College

## Administration Office

### **Cindy Smack**

#### **Administrative Assistant**

### **Susan Crane**

#### **Office Specialist**

### **Stacey Field, A.A.S.**

#### **Administrative Assistant-Graduate Studies**

A.A.S. – Southeast Community College

## Admissions Office

### **Sara Malsbury, B.A.**

#### **Director of Admissions**

B.A. – Coe College

### **Lisa McConnell, B.S.**

#### **Campus Visit & Application Coordinator**

B.S. – Weber State University

### **Kelli Backman, B.A.**

#### **Admissions Counselor**

B.A. -Chadron State College

# COLLEGE PERSONNEL

---

## Educational Technology

**Cindy Masek, M.S.N., R.N.**  
**Distance Education Director**  
A.D.N. – University of Nebraska Medical Center  
B.S.N. - Briar Cliff College  
M.S.N. - Nebraska Wesleyan University  
Certification-Distance Education – University of Wisconsin, Madison  
Doctoral Study – University of Nebraska

**Jawad Qudus, B.S.**  
**College Network Administrator**  
B.S. -University of Nebraska

**Jodi Nelson, M.S.N., R.N., C.N.E.**  
**Assistant Professor/Simulation Coordinator**  
Diploma -Bryan Memorial Hospital School of Nursing  
B.A. -Nebraska Wesleyan University  
B.S.N. – Graceland University  
M.S.N.-Graceland University  
C.N.E. – Certified Nurse Educator

## Library

**Anne K. Heimann, M.S., AHIP**  
**Director of Library Services**  
B.S. - Nebraska Wesleyan University  
M.S. - University of Illinois-Urbana-Champaign

**Jan O. Rice, M.A.L.S., AHIP**  
**Reference & Instruction Librarian**  
B.A - University of Nebraska, Lincoln  
M.A. - L.S. University of Wisconsin, Madison

## Records and Registration

**Nancy Schilz, M.A.,**  
**Registrar**  
A.A. -Western Nebraska Community College  
B.A. -Chadron State College  
M.A. – Doane College

**Pam Heinemann, B.A.E.,**  
**Registration & Advising Supervisor**  
B.A.E. -Wayne State College

## Student Support Services

**Patty Bollinger, M.S.N., R.N.-C, APRN-CNS,**  
**Assistant Professor/Professional Development**  
B.S.N. -Union College  
M.S.N.- Andrews University  
A.N.C.C. - Certification, Psychiatric and Mental Health Nurse

**Deborah Wilke, B.S.,-**  
**Financial Aid Director**  
A.D.- University of Nebraska  
B.S. – Doane College

**Becky Davis, M.S.N., R.N., APRN-BC,**  
**Assistant Professor /Health & Wellness**  
A.D.N. – College of St. Mary  
B.S.N. – Creighton University  
M.S.N. – University of Nebraska Medical Center  
A.N.C.C. Certification Community Health

**Andrea Weber**  
**Financial Aid Counselor**

**Jan Hartig, M.S.N., R.N.,**  
**Assistant Professor/Academic Counseling**  
Diploma - Bryan Memorial Hospital School of Nursing  
B.S.N. - University of Nebraska Medical Center  
M.S.N. - Creighton University  
Post Master's Forensic Nursing Certificate -University of Colorado - Colorado Springs

**Brenda Neemann, B.S.,**  
**Coordinator of Student Services**  
B.S. – University of Nebraska

# COLLEGE PERSONNEL

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## Health Professions Faculty

**Renee Hathaway, M.Ed, R.V.T.,  
Assistant Professor, Vascular Sonography**  
A.A.S. -Southeast Technical Institute  
B.S. -University of South Dakota  
M.Ed. – Doane College  
R.V.T. -American Registry of Diagnostic Medical  
Sonography

**Donald LaFleur, B.S., R.D.M.S., R.D.C.S.  
Instructor**  
B.S. – University of Wisconsin-LaCrosse  
R.D.M.S., R.D.C.S – American Registry of Diagnostic  
Medical Sonography

**Jaime Martinez, B.A., R.D.C.S., R.V.T.  
Instructor**  
B.A. – University of Nebraska-Lincoln

**Julie Morbach, B.S., A.R.R.T., R.D.M.S.,  
Instructor**  
A.S. – Mid-Plains Community College  
B.S. – University of Nebraska Medical Center  
R.D.M.S. -American Registry of Diagnostic  
Medical Sonography

## General Education Faculty

**Josef Kren, Ph.D. Sc.D.  
Professor of General Education  
Chair of Natural Sciences**  
B.Sc.- Masaryk University, Brno, Czech Republic  
M.Sc.- Masaryk University, Brno, Czech Republic  
Sc.D. - Masaryk University, Brno, Czech Republic  
Ph.D.-University of Nebraska

**June Smith, Ph.D., R.N.  
Dean of Operations**  
B.S.N. - Nebraska Wesleyan University  
M.S.N. - University of Nebraska Medical Center  
Ph.D.- University of Nebraska

**Paul Stevens, Ph.D.  
Associate Professor, General Education  
General Education Program Director**  
B.S. – University of Nebraska-Kearney  
M.S. – Creighton University  
Ph.D. – Kansas State University

**Kim Hansen, Ph.D.  
Associate Professor, General Education**  
B.S. – University of Nebraska-Lincoln  
M.S. – University of Nebraska-Lincoln  
Ph.D. – University of Nebraska-Lincoln

# COLLEGE PERSONNEL

---

## Nursing Faculty

**Patty Bollinger, M.S.N., R.N.-C, APRN-CNS**  
**Assistant Professor**

B.S.N. - Union College  
M.S.N.- Andrews University  
A.N.C.C. - Certification, Psychiatric & Mental Health Nurse

**Lina Bostwick, M.S.N., R.N.**  
**Assistant Professor**

Diploma – St. Luke’s School of Nursing  
B.S.N. – Nebraska Wesleyan University  
M.S.N. – Nebraska Wesleyan University  
Doctoral Study – College of St. Mary

**Becky Davis, M.S.N., R.N., APRN-BC**  
**Assistant Professor**

A.D.N. – College of St. Mary  
B.S.N. – Creighton University  
M.S.N. – University of Nebraska Medical Center  
A.N.C.C. - Certification Community Health

**Jenna Dubas, M.S.N., R.N.**  
**Assistant Professor**

Diploma - Bryan Memorial Hospital School of Nursing  
B.S.N - Nebraska Wesleyan University  
M.S.N. - Nebraska Wesleyan University

**Nicole Fuller, M.S.N., R.N.**  
**Assistant Professor**

Diploma - Bryan Memorial Hospital School of Nursing  
B.S.N - Nebraska Wesleyan University  
M.S.N. - Nebraska Wesleyan University

**Sue Gabriel, Ed.D. M.F.S., R.N. CFN, SANE-A**  
**Associate Professor**

B.S.N. -University of Nebraska Medical Center  
M.F.S. -Nebraska Wesleyan University  
M.S.N. -Nebraska Wesleyan University  
Ed.D. – College of St. Mary  
SANE-A – Sexual Assault Nurse Examiner

**Jordin Gorka, B.S.N., R.N.**  
**Instructor**

B.S.N. – BryanLGH College of Health Sciences

**Jan Hartig, M.S.N., R.N.**  
**Assistant Professor**

Diploma - Bryan Memorial Hospital School of Nursing  
B.S.N. - University of Nebraska Medical Center  
M.S.N. - Creighton University  
Post Master’s Forensic Nursing Certificate –  
University of Colorado - Colorado Springs

**Nancy Hula, M.S.N., R.N.**  
**Assistant Professor/Level III Coordinator**

B.S.N - Creighton University  
M.S.N.- Nebraska Methodist College

**Kathy Jacobs, M.S.N., R.N.**  
**Assistant Professor**

B.S.N. - University of Wisconsin, Madison  
M.S.N. - University of Rochester, New York

**Michelle Johnson, M.S.N., R.N.**  
**Assistant Professor**

Diploma – Bryan School of Nursing  
B.S.N. – University of Nebraska Medical Center  
M.S.N. – Nebraska Wesleyan University  
Doctoral Study – University of Nebraska Medical Center

**Robin Kappler, M.S.N., R.N.**  
**Assistant Professor**

Diploma – Bryan School of Nursing  
B.S.N. – Nebraska Wesleyan University  
M.S.N. – College of St. Mary

**Sherry Koenigsman, M.S.N., R.N.**  
**Assistant Professor**

A.D. - University of Nebraska  
B.S. - University of Nebraska  
M.S.N. - Andrews University

**Marcia Kube, Ed.D, R.N., CNE**  
**Professor/Graduate Nursing Program Director**

B.S.N. - Mount Marty College  
M.A. - University of Nebraska  
M.S.N. - Andrews University  
Ed.D.– College of St. Mary

**Linda Lair, MNsc., R.N.C., CPN**  
**Adjunct Clinical Faculty**

Diploma – Immanuel School of Nursing  
B.S.N. – Midland Lutheran College  
M.N.Sc. – University of Arkansas for  
Medical Sciences  
NCC – Certification–Neonatal Intensive Care  
CPN – Certified Pediatric Nurse

**Kendra Majerus, M.S.N., R.N.**  
**Instructor**

B.S.N. – University of Nebraska Medical Center  
M.S.N. – University of Nebraska Medical Center

**Linda Miles, M.S.N., R.N.**  
**Assistant Professor/Level I and II Coordinator**

Diploma -Bryan Memorial Hospital School of Nursing  
B.S.N. -University of Nebraska Medical Center  
M.S.N. -Clarkson College

**Agnes Natale, M.S.N., R.N.**  
**Assistant Professor**

B.S.N. - University of Rhode Island  
M.S.N., University of Nebraska Medical Center

**Sheri Paneitz, M.S.N., R.N.**  
**Assistant Professor**

Diploma - Bryan Memorial Hospital School of Nursing  
B.S.N. - University of Nebraska Medical Center  
M.S.N. - Nebraska Wesleyan University

**Sue Pilker, M.S.N., R.N.**  
**Assistant Professor**

B.S.N. - South Dakota State University  
M.S.N. - Nebraska Wesleyan University

**Tasha Pfenning, M.S.N., R. N.**  
**Assistant Professor-Skills Lab Coordinator**

Diploma-Bryan Memorial Hospital School of Nursing  
B.S.N.-Nebraska Wesleyan University  
M.S.N.-Nebraska Wesleyan University

# COLLEGE PERSONNEL

---

**Shirley Retzlaff, M.S.N., R.N.****Assistant Professor**

Diploma - Bryan Memorial Hospital School of Nursing  
B.S. - Nebraska Wesleyan University  
B.S.N. - Nebraska Wesleyan University  
M.S.N. - University of Nebraska Medical Center

**Ellen Richards, M.S.N., R.N.****Assistant Professor**

A.D.N. - University of Nebraska Medical Center  
B.S.N. - University of Nebraska Medical Center  
M.S.N. - Nebraska Wesleyan University

**Karla Scholl, M.S.N., R.N.****Assistant Professor**

Diploma - Bryan Memorial Hospital School of Nursing  
B.S.N. - University of Nebraska Medical Center  
M.S.N. - Nebraska Wesleyan University

**Julie Skrabal, M.S.N., R.N.****Assistant Professor**

B.S.N. - University of Nebraska Medical Center  
M.S.N. - University of Nebraska Medical Center

**Cindy Slone, M.S.N., R.N., CEN, CCRN****Associate Professor**

Diploma - Bryan Memorial Hospital School of Nursing  
B.S.N. - Nebraska Wesleyan University  
M.S.N. - Andrews University  
ENA - Certification in Emergency Nursing  
AACN - Certification in Critical Care Nursing  
ACE - Certification in Organizational Coaching  
Doctoral Study - College of St. Mary

**Michelle Summers, B.S.N., R.N.****Instructor**

Diploma - Bryan School of Nursing  
B.S.N. - Nebraska Wesleyan University

**Robin Spangler, M.S.N., R.N.****Assistant Professor**

Diploma - Immanuel School of Nursing  
B.S.N. - University of Nebraska Medical Center  
M.S.N. - Creighton University

**Jan Tubbs, M.S., M.S.N., R.N.****Assistant Professor/Clinical Coordinator**

Diploma - Lincoln General Hospital School of Nursing  
B.S. - University of Nebraska  
M.S. - University of Nebraska  
M.S.N. - Andrews University

**Karen Westover, M.S.N., R.N.****Assistant Professor**

Diploma - Bryan Memorial Hospital School of Nursing  
B.S. - Nebraska Wesleyan University  
M.S.N. - Nebraska Wesleyan University

**Jackie Wilmarth, M.N., R.N.****Assistant Professor**

A.D.N., - University of Nebraska Medical Center  
B.S.N. - University of Nebraska Medical Center  
M.N. - University of California at Los Angeles  
Doctoral Study - Creighton University

**Rhonda Woodside, M.S.N., R.N.****Assistant Professor**

A.D.N. - College of St. Mary  
B.S.N. - College of St. Mary  
M.S.N. - Andrews University

## School of Nurse Anesthesia Faculty

**Marcia Jensen, M.S., CRNA****Assistant Program Administrator**

B.A.N. - Augustana College  
M.S. Nurse Anesthesiology - Mount Marty College

**Shannon Pecka, M.S.N., CRNA****Instructor**

B.S.N. - University of Iowa  
M.S.N. - University of Iowa

**Christine Mitchell, M.S., CRNA****Instructor**

B.S.N. - Nebraska Wesleyan University  
M.S. - University of Kansas  
Certificate of Anesthesia - Bryan Memorial Hospital/University of Kansas School of Nurse Anesthesia



# ACADEMIC CALENDAR



## ACADEMIC CALENDAR

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<b>Fall Semester</b>	<b>2011-2012</b>
First Meeting of Classes	8.22.2011
Labor Day Recess	9.5.2011
Tuition Past Due	9.23.2011
Fall Break	10.17-18.2011
Registration for Spring Opens	10.24.2011
Thanksgiving Recess	11.23-25.2011
Final Examinations	12.12-16.2011
Final Day of Fall Semester	12.16.2011
Graduation	12.17.2011
<b>Spring Semester</b>	
First Meeting of Classes	1.9.2012
Martin Luther King Day	1.16.2012
Tuition Past Due	2.10.2012
Spring Break	3.19-23.2012
Registration for Summer and Fall Opens	3.26.2012
Final Examinations	4.30-5.4.2012
Final Day of Semester	5.4.2012
Graduation	5.5.2012
<b>Summer Semester</b>	
First Meeting of Classes	Refer to individual course schedule
Memorial Day Recess	5.28.2012
Independence Day Recess	7.4.2012
Final Examinations	Refer to individual course schedule
Final Day of Summer Session	Refer to individual course schedule



# INDEX

Academic Calendar .....	104	Curriculum Plan-	
Academic Integrity .....	26	Adult Cardiac Sonography B.S. ....	62
Academic Progress .....	19	Curriculum Design-Nurse Anesthesia .....	86
Academic Standing .....	19	Curriculum Objectives-	
Accreditation/Licensure .....	7	Adult Cardiac Sonography .....	57
Accreditation-Nurse Anesthesia .....	94	Curriculum Objectives-	
Additional Costs-Nurse Anesthesia .....	93	Diagnostic Medical Sonography .....	57
Administration.....	97	Curriculum Objectives-	
Administration Office .....	97	Nursing .....	48
Administrative Withdrawal .....	18	Curriculum Objectives-	
Admission Policies .....	10	Vascular Sonography.....	57
Admission Requirements-		Curriculum Plan-	
Graduate Certificate .....	80	Adult Cardiac Sonography A.S. ....	60
Admissions Office .....	97	Curriculum Plan-	
Admissions-Nurse Anesthesia .....	83	Diagnostic Medical Sonography A.S. ....	68
Adult Cardiac Sonography A.S. ....	59	Curriculum Plan-	
Adult Cardiac Sonography B.S. ....	61	Diagnostic Medical Sonography B.S. ....	70
Advanced Placement .....	12	Curriculum Plan-Nursing .....	49
Advanced Placement in Health Professions .....	58	Curriculum Plan-RN-BSN .....	54
Advisement & Counseling Services .....	30	Curriculum Plan-	
Alumni Association.....	7	Vascular Sonography A.S. ....	64
Application Procedure.....	10	Curriculum Plan-	
Application Procedure-Nurse Anesthesia ....	83	Vascular Sonography B.S. ....	66
Application Procedure-RN-BSN .....	54	Degrees/Certificates Offered .....	6
Assessment of Student Learning.....	5	Diagnostic Medical Sonography A.S. ....	67
Attendance .....	19	Diagnostic Medical Sonography B.S. ....	69
Auditing .....	16	Discretionary Leave Time-	
B.S. Degree Completion Option in		Nurse Anesthesia .....	93
Health Professions .....	58	Dismissal.....	18
Basic Nursing Assistant.....	47	Drop and Add .....	17
Board of Trustees .....	96	Drug and Alcohol Policy.....	27
Call-Nurse Anesthesia .....	94	Educational Goals-Nurse Anesthesia .....	82
Campus Facilities .....	6	Educational Technology.....	98
Campus Security/Crime Prevention .....	26	Employment-Nurse Anesthesia .....	93
Catalog .....	16	Enrollment.....	16
Certification-Nurse Anesthesia .....	94	Essential Abilities of Sonographers .....	56
Classification of Students .....	19	Faculty-General Education .....	99
Clinical Grading Policy.....	21	Faculty-Health Professions .....	99
Clinical Practicum-Nurse Anesthesia .....	91-92	Faculty-Nurse Anesthesia .....	101
Code of Conduct.....	26	Faculty-Nursing .....	100-101
College Goals .....	4	Federal Financial Aid Return Policy .....	14
Competencies-Nurse Anesthesia .....	84-85	Finals Week .....	21
Completion of a Minor Following		Financial Aid .....	14
Graduation .....	46	Financial Aid-Nurse Anesthesia .....	94
Completion Program-RN-BSN .....	54	Formal Complaints .....	22
Computer Access .....	47	General Education Plan .....	34-35
Computer Skills.....	47	Grading System .....	20
Community Service-Health Professions.....	47	Graduation Honors .....	22
Consumer Information-Nurse Anesthesia .....	94	Graduation Requirements.....	21
Contact Information-Admissions .....	12	Grievance Policy .....	22
Contact Information-Financial Aid.....	14	Harassment .....	26
Contact Information-Nurse Anesthesia .....	94	Health Services-Nurse Anesthesia .....	93
Course Descriptions-		History .....	5
General Education .....	36-45	Holds .....	23
Course Descriptions-		Housing.....	30
Graduate Certificate .....	80	Housing-Nurse Anesthesia .....	93
Course Descriptions-		Incomplete Grade.....	21
Health Professions .....	72-77	International Students-Nurse Anesthesia .....	84
Course Descriptions-		International/Permanent Resident	
Nurse Anesthesia .....	87-90	Students .....	10
Course Descriptions-		Leave of Absence.....	17
Nursing .....	50-53	Liability-Nurse Anesthesia .....	94
Course Load .....	16	Library.....	31
Course Warning.....	17	Library.....	98
CPR .....	47	Math Competency.....	47
CPR-Nurse Anesthesia .....	94	Minors .....	46
Credit by Examination .....	12	Mission & Vision.....	4
Credit by Waiver .....	12	Name Changes.....	23
		Non-Discrimination Policy .....	5

Pass/No Pass.....	20
Philosophy-Diversity.....	5
Philosophy-General Education.....	34
Philosophy-School of Health Professions .....	55
Philosophy-School of Nursing .....	48
Posthumous Degrees .....	23
President's & Dean's List .....	20
Privacy Act.....	22
Program Description-Nurse Anesthesia .....	81
Program Descriptions-Graduate Certificate .....	80
Program Philosophy-Nurse Anesthesia .....	81
Purpose .....	4
Readmission .....	18
Record Retention .....	22
Records and Registration.....	98
Registration .....	16
Release of Reference Information .....	23
Religious or Cultural Observance .....	19
Repeating a Course.....	17
Science Laboratory .....	31
Sexual Assault.....	26
Simulation & Skills Laboratory.....	31
Statement of Diversity .....	5
Student Government .....	31
Student Handbook.....	16
Student Health Services.....	30
Student Organizations .....	31
Student Rights and Responsibilities .....	26
Student Status .....	16
Student Success Center.....	30
Student Support Services .....	98
Students with Disabilities .....	30
Students-at-Large.....	10
Tattoo Policy .....	27
Time Commitment-Nurse Anesthesia .....	93
Transcripts & Records Requests .....	22
Transfer of Credit .....	11
Transfer Students.....	11
Tuition & Fees-Graduate Certificate.....	80
Tuition and Fees.....	14
Tuition and Fees-Nurse Anesthesia .....	93
Tuition Collection & Payment Policy .....	14
Tuition Refund Schedule .....	14
Types of Financial Aid.....	14
Values Statement .....	4
Vascular Sonography A.S. ....	63
Vascular Sonography B.S. ....	65
Veterans' Information .....	14
Withdrawal .....	18