The School of Nursing offers a non-nursing program leading to the Bachelor of Science degree. This major offers students the opportunity to gain specialized education, training, and experience in the exciting field of clinical research. Clinical Research is the process by which new therapies (medications, biological agents, and devices) are tested in clinical studies prior to approval and marketing. Clinical Research also includes the study of products after approval once they are on the market, particularly for rare or unexpected adverse events. Students in the Clinical Research program gain a broad-based understanding of the science, regulatory, and business aspects of developing new therapies to treat illness and improve quality of life.

Graduates from the Clinical Research program are employed by pharmaceutical, biotechnology, and patient device companies; contract research organizations (CROs); clinics enrolling patients into clinical trials; and government agencies. This program provides graduates with many career paths such as those available in clinical operations, data management, scientific writing, clinical site coordination, and regulatory affairs.

Admissions requirements to the Clinical Research program are listed in the 2014-15 Catalogue and on the School of Nursing’s website, [http://www.uncw.edu/oss/bsclinicalresearch.html](http://www.uncw.edu/oss/bsclinicalresearch.html).

**Minimum Requirements for Admissions to the B.S. in Clinical Research:**

1. Admission to the University of North Carolina Wilmington as a degree-seeking student.
2. The following prerequisite courses must be completed or in progress upon application to the program: BIO *240, or EXS 216, BIO *241 (or EXS 217), 246, CHM 101, STT 210 or STT 215 or QMM 280 (also PSY 105, PSY 223, and SOC 105 or ECN 125 or ECN 221).
3. Students must earn a grade of “C” (2.00) or better in all of the required non-CLR courses and CLR courses (specified below) and “C-” or better in all CHM required courses.
4. A cumulative GPA of 2.50.
5. Completed application to the Clinical Research Program.
6. Recommendation of the Student Affairs Committee of the School of Nursing.
7. Approval of the Clinical Research faculty and director.
8. Negative criminal background check, negative drug screen, and verification of health insurance.

**Required non-CLR courses:** BIO +*201, *240 or EXS 216, BIO *241 or EXS 217, BIO *246, CHM -*101, *102, MAT +111, STT +210 or STT +215 or QMM +280, PAR +115 or PAR +215, PSY +105, 223, SOC +105 or ECN +125 or ECN +221, MKT 340.

**CLR Elective:** Choose 1 course from the following: CHM*102, ECN 327, EDN 211, ENG 313, HEA 452, OPS 370, PSY *425, QMM 384, or STT 305.

**Required CLR courses:** CLR 301, 310, 320, 325, 330, 350, 410, 420, 430, 440, 450, 460, and 498. Excluding CLR 498, CLR courses are completely online and listed in section 800. Courses may be taken out of numerical order with the following exceptions: CLR 301 (which is a prerequisite for all other CLR courses), CLR 310 (which is a prerequisite for CLR 410), and CLR 498 (which must be taken in the senior year after successful completion of all 300-level CLR courses).

**NOTE TO ADVISORS:** Students interested in CLR should see an advisor within the College of Health and Human Services and check the School of Nursing website very carefully. Students should declare Pre-Clinical Research with 24 credit hours. The Clinical Research Program has a competitive admission process. Interested students should discuss selection criteria with an academic advisor in the CHHS Office of Student Success.

[http://uncw.edu/oss/](http://uncw.edu/oss/)
B. S. Clinical Research (CLR)

College: Health and Human Services
Clinical Research Option

Course requirements for all UNCW degrees include: (1) University Studies, (2) specific major requirements, and (3) sufficient elective hours for a combined total of a minimum of 124 hours.

MAJOR REQUIREMENTS – CLR (Minimum 92 hours)

Collateral Courses: (44-45 hours)

- +BIO 201 Principles of Biology: Cells (4)
- *BIO 240/ EXS 216 Human Anatomy and Physiology I (3), Lab (1) Prerequisites: BIO 201 and CHM 101
- *BIO 241/ EXS 217 Human Anatomy and Physiology II (3), Lab (1) Prerequisite: BIO *240
- *BIO 246 Microbiology of Human Diseases (3) Prerequisites: BIO 201 and CHM 101
- +*CHM 101 General Chemistry I (4)
- +MAT 111 College Algebra (3) Prerequisite: Satisfactory performance on the UNCW math test or MAT 105
- +PAR 215 Bioethics (3)
- +PSY 105 General Psychology (3)
- PSY 223 Life Span Human Development (3) Prerequisite: PSY 105
- +STT 210 Introduction to Statistics with Applications in the Health Sciences (3) Prerequisite: MAT 111
- Choose 1 course from the following: ECN +125, ECN +221, or SOC +105.
- Choose 1 course from the following: CHM *102, ECN 327, EDN 211, ENG 313, HEA 452, OPS 370, PSY *425, QMM 384, or STT 305.

Core Courses: (48 hours)

- CLR 301 Basics of Clinical Research (3) (Meets Computer Requirement)
- CLR 310 Scientific Writing (3) (writing intensive)
- CLR 320 Scientific Literature Seminar (3) (info literacy)
- CLR 325 Introduction to Pharmacotherapeutics (3) Prerequisites: BIO 240, 241, and 246
- CLR 330 Fundamentals of Product Development (3)
- CLR 350 Understanding Medical Terminology and Clinical Endpoints (3)
- CLR 410 Advanced Scientific Writing (3) (writing intensive)
- CLR 420 Regulatory Affairs (3)
- CLR 430 Managing and Monitoring Clinical Trials (3)
- CLR 440 Bioanalytics (3)
- CLR 450 Data Management (4)
- CLR 460 Senior Seminar (2) (Meets Oral Communication Requirement)
- CLR 498 Senior Internship (12)
- MKT 340 Principles of Marketing (3) Prerequisite: Junior standing or admission to CSB

A “C” (2.00) or better is required in each required CLR core course in order to progress. A cumulative GPA average of 2.00 or better is required for graduation. A “C-“ (1.98) or better is required in all required non-CLR CHM courses in order to apply to/progress in program. A “C” (2.00) or better is required in all required non-CLR courses (with the exception of CHM courses) in order to apply to/progress in the program.

NOTE: Many of the required courses are sequential, have prerequisites, and may be offered only once a year; therefore, it is imperative that students consult with the academic advisor and follow the prescribed program of study. Students are also expected to complete the University Studies requirements during the freshman and sophomore years because of the rigor and concentration of lab courses and the internship in the major. The recommended 15-17 semester hour course load each semester is necessary to complete the program in four academic years. In addition to the University Studies and required prerequisite courses, elective credits are also included in the 124 hours required for graduation. To qualify for the B.S. in CLR, 25% of the total semester hours must be taken in residence at UNCW.

*These courses require a lab
+May also be used to satisfy University Studies Foundations & Approaches and Perspectives requirements

Requirements to declare PRE-CLR: Completion of 24 credit hours
Requirements to declare CLR: See listing above and in the UNCW undergraduate catalogue.
For further information, see the NSG website: http://www.uncw.edu/son and http://catalogue.uncw.edu.

This document is considered an unofficial guide. Please refer to your degree audit for the latest updates.

4/25/14