B.S. CLINICAL RESEARCH (CLR)  
Barbara Pennington, Program Coordinator

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 2019-20 Catalogue and on the School of Nursing’s website, [https://uncw.edu/chhs/son/academic/clinical-research-bs.html](https://uncw.edu/chhs/son/academic/clinical-research-bs.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) All but one course listed must be completed with a C or better prior to the start of the fall semester of the Clinical Research courses. PSY 105, BIO 201, BIO/L 240 or EXS 216/L, BIO 241/L or EXS 217/L, BIO 246, CHM 101, Math [MAT 111, 112, 115, 151, 152, 161, or 162] and Statistics [STT 210, 215, BAN 280, or PSY 225]
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)
4) A cumulative GPA of 2.50.
5) Completed application to the Clinical Research Program (including essay, resume, and video).
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 and verification of health insurance.

**Clinical Research Major Courses:** CLR 301, 310, 325, 330, 340, 350, 410, 420, 430, 440, 450, and 470 are online and listed as 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/)

Note:

1. Students can complete courses in the summer and still be eligible to apply.
2. Students can have only ONE missing CLR pre-requisite course needed for the first year of their program.

It is preferred that students complete everything by the spring of their admissions deadline (first option); summer of their admissions period (second option), and the missing course must be done by that first year of their program in CLR, if accepted into the program (option three). For option three, missing courses can impact a student’s competitiveness for the program.

For complete admissions information please visit the CLR website by following the link below: [https://uncw.edu/chhs/son/academic/documents/clradmissionsinfo1.pdf](https://uncw.edu/chhs/son/academic/documents/clradmissionsinfo1.pdf)
MAJOR REQUIREMENTS – CLR (Minimum 83-84 hours)

Collateral Courses: (28 hours)

- **BIO 201** Principles of Biology: Cells (4)
- **BIO 240/EXS 216** Human Anatomy and Physiology I (3), Lab (1) Prerequisites: BIO 201, CHM 101
- **BIO 241/EXS 217** Human Anatomy and Physiology II (3), Lab (1) Prerequisite: BIO *240; EXS 216
- **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
- **PSY 105** General Psychology (3)
- **STT 210** Introduction to Statistics with Applications in the Health Sciences (3) Prerequisite: MAT 105 or ACT score of 22 or higher (other statistics options: **STT 215, BAN 280, PSY 225**)

Core Courses: (55-56 hours)

- **CLR 301** Introduction to Clinical Research (3) (Meets **Computer Requirement**) [open to non-majors]
- **CLR 310** Clinical Research Writing and Communications (3) [Writing Intensive] Prerequisite: CLR 301
- **CLR 325** Pharmacotherapeutics (3) Prerequisites: CLR 301
- **CLR 330** Fundamentals of Biopharmaceutical Product Development (3) Prerequisite: CLR 301
- **CLR 340** Study and Site Management for Clinical Trials (3) Corequisite: CLR 301
- **CLR 350** Understanding Medical Terminology and Clinical Endpoints (3)
- **CLR 410** Collaborative Writing for Clinical Studies (3) [Writing Intensive] Prerequisite: CLR 310
- **CLR 420** Regulatory Affairs (3)
- **CLR 430** Managing and Monitoring Clinical Trials (3) Prerequisites: CLR 301, 330, and 340
- **CLR 440** Bioanalytics (3) Prerequisites: CLR 301, 330 and 350
- **CLR 450** Data Management (4) Prerequisite: CLR 301
- **CLR 470** The Business of Clinical Research (3) Prerequisite: CLR 497
- **CLR 496** Clinical Research Internship I (6) Prerequisites: CLR 301, 310, 325, 330, 340, 350
- **CLR 497** Clinical Research Internship II (6) [Explorations beyond the Classroom] Prerequisite: CLR 496
- **PAR 215** Bioethics (3)
- **Elective** Choose 1 course from the following (3-4): CHM *102, ECN 327, EDN 211, ENG 313, GRN 101, HEA 452, MKT 340, PSY 245, +256 *425, STT 305, 350.

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” (2.00) or better is required in all required non-CLR 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.

*These courses require a lab

**Note:** School of Nursing will accept BAN 280, STT 215, and PSY 225 to fulfill STT requirement.

**+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: [https://www.uncw.edu/chhs/academics/undergrad.html](https://www.uncw.edu/chhs/academics/undergrad.html)

This document is considered an unofficial guide. Please refer to your degree audit for the latest updates. 4/24/2019