



George Washington University



Bachelor of Science in Health Sciences - Clinical Laboratory Science

STUDENT DATA:

NAME: ROADMAP'S DEGREE

SSN: 000-00-0000

Credit Potential
Required Credit

General Education Requirements

A minimum of 65 semester hours toward the degree must be completed prior to enrollment, these courses include the following:

English Composition	(6)	Organic Chemistry	(8)
General Biology	(8)	Mathematics	(3)
Intro Microbiology	(4)	Humanities/Social Science	(12)
General Chemistry	(8)	and Electives	(16)

General education coursework may be completed by taking courses at community colleges and other accredited institutions of higher education, through the PACE program, or by taking CLEP or DANTEs examinations.

English Composition Electives **6.00**

(College credit by examination may apply. Visit the GWU website for a description of these courses.)
 {DANTEs Code = 11.07.00}

Biological Sciences Electives **8.00**

(College credit by examination may apply. Visit the GWU website for a description of courses available.)

Introductory Microbiology **4.00**

(College credit by examination may apply. Visit the GWU website for a description of this course.)
 {DANTEs Code = 16.03.15}

General Chemistry Electives **8.00**

(College credit by examination may apply. Visit the GWU website for a description of courses available.)

Organic Chemistry, with Labs **8.00**

(College credit by examination may apply. Visit the GWU website for a description of courses available.)
 {DANTEs Code = 16.05.03}

Mathematics Elective **3.00**

(College credit by examination may apply. Visit the GWU website for a description of courses available.)

{DANTES Code = any 14.XX.XX series}

Humanities or Social Sciences Electives 12.00

(College credit by examination may apply. Visit the GWU website for a description of courses available.)

{DANTES Code = 08.06.00 or most 08.XX.XX series or 20.XX.XX series}

General Education Electives 16.00

(General education course work may be completed by taking courses at community colleges and other accredited institutions of higher education, or by Pace program, USCG Afloat or CLEP or DANTES examinations.)

Health Policy and the Health Care System (HSCI 103) 3.00

(Incorporates economic theory and policy analysis methodology to analyze the impact of changes in the health care system on the practice of health sciences professionals and the quality and process of health care. The role of state and federal legislation will be explored, and critical aspects of the U.S. health system are compared to those of other countries.

Development of critical thinking skills through review of current medical literature.)

Management of Health Science Services (HSCI 104) 3.00

(Application of management and organizational principles to the delivery of services provided by health sciences disciplines. Issues addressed include information systems, leadership, team building, fiscal management, human resources management, quality improvement, and management of conflict and change.)

{DANTES Code = 09.05.00}

Laboratory Operations (CLS 118) 1.00

(Basic concepts applicable to all areas of the clinical laboratory. Quality assurance and quality control, laboratory safety, including federal regulations, and related topics.)

Introduction to Immunologic Fundamentals (CLS 119) 3.00

(Fundamental immunologic concepts. Serologic and immunologic procedures as applied to clinical and research situations.)

Urinalysis and Body Fluids (CLS 120) 1.00

(Evaluation of urine and other body fluids for the presence of disease; clinical correlations.)

Immunohematology I (CLS 125) 1.00

(Immunological aspects of transfusion of human blood. Emphasis on preparation and administration of blood components.)

Psychosocial Aspects of Health and Illness (HSCI 101) 3.00

(Comprehensive introduction of the psychological and social aspects of health and wellness, including social foundations of behavior and psychological theories related to health and the impact of illnesses on patients, families, and communities. Emphasis on the development of communication skills and the establishment of caring relationships. Discussions of special situations such as working with dying patients and

patients with self-destructive behaviors.)

Pathophysiology (HSCI 102) 3.00

(Biomedical and scientific framework for the understanding of human disease mechanisms and biologic processes. Lecture presentations cover infectious, immunologic, cardiovascular, genetic, respiratory, gastrointestinal, neoplastic, reproductive, renal, hematologic, neurologic, and musculoskeletal diseases.)

Clinical Chemistry I (CLS 121) 2.00

(Principles and procedures involved in chemistry analysis of human blood and body fluids. Clinical correlations and pathological aspects of human disease.)

Clinical Microbiology I (CLS 123) 2.00

Principles of clinical microbiology, with emphasis on pathogenic characteristics, isolation, and identification of organisms related to human disease.)

{DANTES Code = 16.03.15}

Hematology I (CLS 128) 2.00

(Principles of laboratory detection, clinical correlation, and pathophysiology of human blood cell diseases and disorders of hemostasis.)

Ethics for Health Professionals (HSCI 105) 3.00

(An overview of ethics and ethical reasoning in the health professions. Basic issues and requirements of ethically acceptable decision making with patients throughout their life span, including patient confidentiality, conflicts of interest, allocation of scarce resources, occupational risks in health care, and professional responsibility for overall quality of care. Provides approaches to ethical problem solving.)

{DANTES Code = 17.05.02}

Clinical Chemistry II (CLS 122) 2.00

(Principles and procedures involved in chemistry analysis of human blood and body fluids. Clinical correlations and pathological aspects of human disease.)

Clinical Microbiology II (CLS 124) 2.00

Principles of clinical microbiology, with emphasis on pathogenic characteristics, isolation, and identification of organisms related to human disease.)

{DANTES Code = 16.03.15}

Immunohematology II (CLS 126) 2.00

(Immunological aspects of transfusion of human blood. Emphasis on preparation and administration of blood components.)

Clinical Immunology (CLS 127) 1.00

(Principles of immunologic assays and clinical correlation with human disease.)

Hematology II (CLS 129)	2.00	
(Principles of laboratory detection, clinical correlation, and pathophysiology of human blood cell diseases and disorders of hemostasis.)		
Clinical Chemistry Practicum (CLS 130)	4.00	
(Rotation through the clinical chemistry laboratory.)		
Clinical Microbiology Practicum (CLS 131)	4.00	
(Rotation through a clinical microbiology laboratory.)		
Clinical Hematology, Coagulation, and Urinalysis Practicum (CLS 132)	4.00	
(Rotation through the clinical hematology, hemostasis, and urinalysis laboratories.)		
Blood Bank and Serology Practicum (CLS 133)	4.00	
(Rotation through the blood bank and clinical immunology laboratory.)		
Clinical Laboratory Management (CLS 141)	3.00	
(Basic concepts of laboratory management, including organizational principles, financial management of resources, decision-making and problem-solving skills, human resource management.)		
Clinical Practicums		
Students residing outside the DC Metropolitan area would need to complete clinical practicums in their area of residence. The applicant is required to identify potential clinical sites and contact persons. If an acceptable site cannot be identified, the applicant would not be admitted to the program or would need to come to Washington, DC for clinical practicums.		
Excess or Duplicate Credit		
TOTAL	120.00	0.00

Thank you for requesting support from the U.S. Coast Guard Institute (CGI). Whereas we serve as an activity in support of your unit Educational Services Officer (ESO), you are encouraged to seek assistance from your local ESO in your academic endeavors. The following information is provided to help you understand what is presented in this degree plan:

This document is an UNOFFICIAL Degree Plan to provide you with a preliminary assessment of how your prior learning experiences might fit into the specified degree program for this academic institution. If you choose to pursue this degree option, you must present it to a college representative, who will review it for the following:

- o Accurate representation of the college's degree program requirements, including course numbers and titles, credit hours for each course, lower- and upper-level course requirements, and the total number of credits needed for the degree.
- o Appropriate assignment of ACE Guide-recommended credit at the lower or upper level for military service schools and occupations, CLEP, DSST, and other tests, transfer credit for courses from other colleges and universities, certification programs, etc.

o Appropriate assignment of SOC Course Category Codes from the SOC Handbook Transferability Tables. The SOC Degree Program Handbooks can be obtained from the SOC web site at: www.soc.aascu.org should you wish to learn more about the course transfer guarantees among SOC network institutions.

IMPORTANT NOTE: When you are ready to seek admission into this degree program, please contact the USCG Institute at 1-405-954-7241. Your advisor will send the college or university an official U.S. Coast Guard Institute transcript, a copy of the degree plan, and a ready-for-signature SOC Student Agreement which, when signed by a college official, becomes a contract for degree completion committing the college or university to supporting you in your academic endeavors.

Credit for all courses you have taken must be reflected on official transcripts sent directly to this college from the administrative offices of the colleges you previously attended. This degree plan is often used for information purposes by college counselors pending receipt of the official transcripts from the source colleges.

This degree plan is not intended to compete with your local college or university. Keep in mind, you are allowed to transfer in a significant amount of the degree requirements to this institution. As such, credit from local colleges, college level examination programs, or advanced military training may be applied to this degree. You may also complete the courses necessary from this college either in residence (on campus or possibly on a military base at a campus extension in the Education Center) or through distance delivery of the courses. If you have questions, please contact the college counselor or your advisor listed at the bottom of this Degree Plan.

DEGREE PLAN LEGEND:

SH = Semester hours
VOC = Vocational, not relative to an academic degree
LL = Lower Level, i.e. courses at the Freshman/Sophomore level
UL = Upper Level, i.e. courses at the Junior/Senior level
GL = Graduate Level (sometimes recommended by ACE for very complex courses)
[#] such as [EN024A] or [EN024B] = SOC Course Category Codes*
{#} such as {DANTES Code = 01.02.03} = DANTES Academic Codes **

* SOC Course Category Codes: Service members Opportunity Colleges (SOC) is a consortium of over 1,600 accredited colleges and universities seeking to provide degree opportunities to the military. Over 170 of these institutions participate in network degree programs developed for the Army, Navy, Marine Corps, and Coast Guard. A SOC course category number beside a course from one of these institutions, such as [EN024A] or [EN024B] for English Composition, indicates that courses from other degree program institutions with the same code may be taken to satisfy the degree requirement. See the SOC Degree Programs Handbooks at <http://www.soc.aascu.org/>

** DANTES Academic Codes: The Defense Activity for Non-Traditional Education Support (DANTES) publishes the DANTES Independent Study Catalog (DISC) annually, which lists more than 6,000 courses from dozens of regionally accredited colleges and universities. Because this is a degree from a SOC affiliated college, the

academic residency requirements are limited, thereby allowing students to transfer in a significant portion of the degree, as mentioned above. If the course you desire to take is not offered by this institution when you want to take it, consider the opportunities the courses in the DISC present. For more information, visit http://www.dantes.doded.mil/dantes_web/distancelearning/disc/front/cont.htm Keep in mind, you should always check with the counselor or academic advisor at this institution before enrolling in a course listed in the DISC to ensure it will be accepted in transfer toward this degree.

George Washington University: General Information

The George Washington University opened in 1821 as Columbian College, when Washington had only nine physicians and two apothecaries. The time was ripe for change, and in 1825 the college added a medical department to its curriculum. This, the eleventh medical department in the nation and the first in the capital, would evolve into the internationally recognized medical school, hospital, and ambulatory care facility, The George Washington University Medical Center.

The George Washington University is dedicated to furthering human well being and values a dynamic, student-focused community stimulated by cultural and intellectual diversity and built upon a foundation of integrity, creativity and openness to the exploration of new ideas. The University commits itself to excellence in the creation, dissemination and application of knowledge and the promotion of lifelong learning from both global and integrative perspectives.

Students' "hands on" training is supplemented through our Integrated Education and Research Center located on the 6th floor of the GW Hospital. This includes our Clinical Learning and Simulated Skills (CLASS) Center where their students learn procedures in one of two surgical simulation suites using highly sophisticated computer controlled mannequins. Students also hone their clinical skills in a suite of patient exam rooms through the use of standardized patients. Their program is already recognized for improving the way teaching and evaluations are done for healthcare professionals in training.

GW's long tradition of excellent research exposes our students to a wealth of opportunities. They continue to be on the cutting edge of research in five primary areas: Cancer and Molecular Oncology, Cardiovascular Diseases and Vascular Biology, Emerging Infectious Diseases, Neurobehavioral Sciences, and Public Health and Health Services. This year will officially launch Their Cancer Institute that will focus on the cancers prevalent in our own backyard and present a body of research to address everything from causes to treatment.

Educational technology has also experienced explosive growth. This growth has enabled new delivery methods of instruction to be widely available. By using a blend of both new and established instructional channels such as computers, the World Wide Web, videotape, and printed materials, distance-learning programs allow students to access new career pathways that do not require an on-campus presence.

The George Washington University School of Medicine and Health Sciences has traditionally been a leader in health professions and health sciences education. We continue this tradition in offering health sciences distance-learning programs at both the undergraduate and graduate levels. These educational offerings provide

opportunities for health professionals to acquire the knowledge, skills, contacts, and credentials to make significant contributions to our health care delivery system.

Tuition for students is: \$363 per credit hour for Undergraduate online. (subject to change)

For more information regarding the BS in Health Sciences with a Major in Clinical Laboratory Sciences degree, please contact:

Kirsten Walker
Associate Director
George Washington University
2121 I Street N. W. Suite 201
Washington, DC 20052
(202) 994-7140
<http://www.gdu.edu>

POLICY NOTES:

ENTRANCE REQUIREMENTS

A maximum of 66 credit hours may be accepted from a two year college.

This college is rated as one of the nation's best in U.S. News & World Report's "America's Best Colleges" issue.

Evaluation completed by: Charles Morrison

On: 17 May 2007