



Strayer University



**Associate in Arts in Information Systems**

**STUDENT DATA:**

**NAME:** ROADMAP'S DEGREE

**SSN:** 000-00-0000

**Credit Potential**  
**Required Credit**

**English Composition (ENG 115) [EN024A]**

**4.50**

Prerequisites Placement or ENG 090. This course emphasizes the principles of writing coherent expository essays in various modes. The course reinforces and emphasizes the concept of writing as a process that includes developing and narrowing a topic, logically organizing ideas, drafting, and revising. The course introduces the process of using sources to support ideas and documentation of sources in accordance with citation styles.

**Research and Writing (ENG 215) [EN025A]**

**4.50**

Prerequisite ENG 115 This course examines and implements the principles of argumentation. An argumentative paper is researched and developed based on the concept of writing as a process. The course focuses on the logical organization of ideas patterned on established structures of argument. The course reinforces the importance of the research process and critical evaluation of sources. Acknowledging the intellectual property of others through the proper documentation of sources is stressed.

**The Origins of Western Culture (HUM 101)**

**4.50**

(Studies civilizations and cultures such as ancient Egypt, Crete, Greece, and Rome which have given root to Western culture. Analyzes the artistic, intellectual, religious, political, and socioeconomic aspects of each culture and traces their development in Western civilization.

**Logic or Precalculus (HUM 200, MAT 200)**

**4.50**

Logic HUM 200 Enables students to develop analytical, inductive and deductive reasoning through the study of syllogistic, symbolic, and informal logic. Provides methods of constructing arguments, evaluating statements, and recognizing fallacies in theory as well as in practice.

or

Precalculus MAT 200 Prerequisite: MAT 105 Reviews algebraic techniques. Includes selected advanced topics such as matrices and determinants as techniques for solving linear systems in three or more variables, elementary concepts of analytic geometry, and logarithms. Emphasizes business-related word problems.

**Introduction to College Mathematics (MAT 105)**

**4.50**

Prerequisites Placement or MAT090 Prerequisite: MAT 100 or equivalent. Emphasizes representations and operations of polynomials and rational expressions, functions, and the graphing of linear functions. Methods of

solving linear and quadratic equations are discussed. Introduces complex numbers, exponents, and radical expressions.

**Introduction to Psychology or The Individual and Society (PSY 105, PSY 100) 4.50**  
**[PS101A,PS401A]**

PSY 105 May be taken in place of PSY 100 Introduces psychology as a human and scientific endeavor. Includes examination of concepts and methods in learning, motivation, development, personality, and social behavior.

College credit by examination may apply.

or

PSY 100 May be taken in place of PSY 105 Presents the various ways in which the individual constructs his self-awareness. Studies how social institutions, such as the family and religion, influence the psychological makeup of the individual.

**Introduction to Sociology (SOC 100) [SO001A] 4.50**

Provides a critical survey of contemporary social, political, and economic problems facing American society. Emphasizes the urban crisis, military-industrial complex, racism, and distribution of income.

**Introduction to Computer Information Systems (CIS 105) [CS001A] 4.50**

This course provides a basic knowledge of computer operating systems, software and hardware. It introduces the student to work-processing, spreadsheets, the Internet, and graphics software. Included is a hands-on introduction to Microsoft Windows commands, files, features and functions.

**Accounting I (ACC 100) [AC025A] 4.50**

Covers analysis and recording of business transactions; accounting for sales, purchases, cash disbursements, and receivables; includes end-of-fiscal period work, adjustments, financial statements, and closing procedures.

**Introduction to Business (BUS 100) [BU001A] 4.50**

Provides a foundation in business operations through a survey of major business functions (management, production, marketing, finance and accounting, human resource management, and various support functions). Offers an overview of business organizations and the business environment, strategic planning, international business, and quality assurance.

**Computer Programming Design (CIS 110) [CS011A] 4.50**

This course involves extensive work in the development of the logic required in the development of application programs. The course applies the methods of program design and development, using a structured approach. Included in the course will be the learning of the following concepts: proper documentation techniques, sequence, selection, iteration, modules, and arrays. The student will demonstrate a fundamental understanding of these concepts by writing pseudocode and drawing flowcharts as a precursor to the writing of the programs in a following course. The demonstration will be made in examinations and in laboratory work.

**Introduction to Relational Database Management Systems (CIS 111) [CS067A] 4.50**

Covers the use and programming of the Microsoft Access Database. Topics covered include creating tables, maintaining tables, querying tables,

designing forms, and creating reports.

**UNIX Operating System (CIS 155) [CS060A] 4.50**

Prerequisite: CIS 110 Covers the development and execution of structured shell programs including scripts, menus, I/O redirection, pipes, variables, and other UNIX commands. UNIX administration techniques also are covered including electronic mail, editors, on-line help, and file and directory techniques.

**Introduction to Networking (CIS 175) [CS017A] 4.50**

Introduces the basic concepts of computer networks. Covers basic topologies, protocols, performance issues, and software for LANS/WANS. Assumes student has basic computer knowledge.

**Systems Analysis and Development (CIS 210) [CS083A] 4.50**

Prerequisite: CIS 111 Provides an understanding of the methodology and scope of business information systems analysis and design, and their relationship to the management process. The systems approach and its techniques of problem-solving are stressed.

**System Modeling Theory or Database Mgt Systems (CIS 212, CIS 219) 4.50**

CIS 212 Prerequisite: CIS 110 Covers the principles and theory of discrete-event system simulation. Topics include when to use simulation, advantages and disadvantages of simulation, areas of application, models to use in simulation, analysis of simulation data, and verification and validation of models.

or

CIS 219 Prerequisite: CIS 210 Covers concepts of database systems and their design and impact on information systems. Studies data structure and their relationships in sets of integrated files. Involves database design case study in connection with the study of available database management software packages.

**Computer Ethics (CIS 222) [CS11SA] 4.50**

This course provides critical ethical and legal information that any computer security professional must take into account when developing security policies, plans, and procedures. This course focuses on ethical and legal issues, civil rights, and privacy considerations that organizations must take into account.

**Web Page Develp I or C++ Program or SQL Program (CIS 209, CIS 242, CIS 276) 4.50**

(Choose one course listed below:

CIS 209 Prerequisite: CIS 110 this course covers the design and creation of web pages. Topics covered include design considerations such as load efficiency, appearance, linkage and overall cohesiveness. The student will earn how to create HTML and XML code. The student will earn concepts related to creating, managing, and publishing Web Pages. The student will demonstrate this knowledge by coding applications.

or

Prerequisite: CIS 110 This course covers the basics of the C++ language using the procedural constructs of C++. Primitive data types, control structures, functions, arrays, pointers, and the use of strings and

structures. These tools within the language will be used to design solutions to programming problems. Particular attention will be paid to designing solutions and coding applications that demonstrate a fundamental understanding of the syntax and logic of programming in C++.

or

CIS 276 Prerequisite: CIS 111 This course covers the concept, design and components of querying databases using the Structured Query Language (SQL). Involves the creation of tables, constraints, use of DML, use of DDL, and defining transactions.

**Free Electives**

**9.00**

These courses are selected in consultation with the academic advisor. College credit by examination may apply. Visit the SU website for a description of courses available.

**Excess or Duplicate Credit**

**TOTAL** ..... **90.00** **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](http://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 send the completed enrollment form (found on the college's web page) to the USCG Institute. The registrar will send the college or university an official USCG transcript, a copy of the degree plan (if one was developed through the USCG Institute and was identified on your transcript request), and a ready-for-signature SOC Student Agreement (when signed by a college official, becomes a contract for degree completion).

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](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.

Strayer University: General Information

Strayer University began in 1892 as Strayer Business College in Baltimore, MD. The College was licensed in 1969, to grant Bachelor of Science degrees, and in 1987, authorized to award master's degrees. The college was approved for university

status in 1998. For over 113 years, they have been helping adult students focus their education on advancing their careers.

Accredited by Middle States Commission on Higher Education, Strayer University is dedicated to providing quality higher education programs for working adults. Their programs in information technology, accounting, health services administration, education, business and public administration provide a solid foundation for your education by including studies in humanities, mathematics, history, government and other important topics.

Their undergraduate and graduate programs are available at 32 campuses in Florida, Georgia, Maryland, North Carolina, Pennsylvania, South Carolina, Tennessee, Virginia and Washington, D.C., as well as online. Many students take advantage of both on-campus and online courses. What's more, they enjoy the utmost flexibility in choosing between real-time and anytime online offerings. Whichever type of class you prefer, you'll appreciate their small class sizes that encourage discussion and interaction. Classes are available seven days and nights a week.

By continuously reevaluating and adding programs to their curricula, Strayer University ensures that its students have access to the most current information in business and technology, even as theory and practice in those disciplines constantly advance.

Strayer University offers a scholarship that covers 100% of the undergraduate tuition (up to 2 courses per quarter) for Active Duty military personnel utilizing their military benefits. Graduate students can qualify for a special scholarship that covers a majority of tuition for up to 2 courses per quarter.

Tuition for students is: \$256.00 per credit hour for undergraduate, and \$342 per credit hour for graduate tuition. Online tuition is the same. (subject to change)

For more information regarding this degree, please contact:

Mike Weaver  
Strayer University  
1025 15th Street N. W.  
Washington DC, 20005  
(703) 339 - 2520  
E-mail: [maw@strayer.edu](mailto:maw@strayer.edu)  
<http://vcc.strayeruniversity.edu>

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 November 2008