



# Associate of Science Degree

To qualify for an Associate of Science degree, students must successfully complete a minimum of 62 credits (exclusive of physical education) including the general education requirements, the required courses in the major field, and such additional courses as they may select with the assistance of their faculty advisors to meet the requirements of the major.

## General Education Requirements

The general education requirements for graduation in the Associate of Science degree programs are listed below. Specific guidance about the courses that are available to meet general education requirements will be provided to students in advance of registration. Students are required to meet with their advisors in the selection of their courses.

<b>I. GENERAL EDUCATION COURSES</b>	<b>Credits</b>
<b>A. FRESHMAN DEVELOPMENT SEMINAR (FDS)*</b>	<b>0-1</b>
<b>B. HUMANITIES</b>	<b>9</b>
Courses fulfilling the humanities electives include: humanities, communication, English, French, Spanish, music, theatre, philosophy, art.	
<b>C. MATHEMATICS AND/OR SCIENCE</b>	<b>9-12</b>
SCI 100*            The Natural World: The Caribbean**	3
<b>D. SOCIAL SCIENCES</b>	<b>6-9</b>
SSC 100*            An Introduction to the Social Sciences: A Caribbean Focus <i>and</i>	3
Two other courses in the social sciences: anthropology, criminal justice, economics, geography, history, political science, psychology, sociology	

\*Requirement of the Freshman-Year Program for all students matriculating into the University with fewer than 24 credits.

\*\*Nursing students are exempt from this course.

<b>II. SUMMARY</b>	<b>Credits</b>
Freshman Development Seminar	0-1
Humanities	9
Mathematics and/or science	9-12
Social sciences	6-9
<b>TOTAL</b>	<b>24-31</b>

## III. OTHER REQUIREMENTS

Students are required to take 0.5 credit hour in physical education for every semester they are full-time students up to the required two credit hours. PLS 200 may also be used to meet this requirement.

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Also, students must earn at least 30 of the last 36 credits at the University of the Virgin Islands. Course work more than ten years old must be reviewed on a case-by-case basis to determine its appropriateness to the current university course requirements. In order to graduate, students must earn at least two times as many quality points as registered credits in all their courses as well as in the courses of their major.

Additionally, students must successfully pass the following examinations:

- 1. ENGLISH PROFICIENCY EXAMINATION (EPE)**
- 2. COMPUTER LITERACY REQUIREMENT (CLE)**

Please review entry prerequisites for EPE and CLE on page 64.

## **Degree Majors and Programs – A.S. Degree**

### **COLLEGE OF SCIENCE AND MATHEMATICS**

**Computer Science - Albert A. Sheen Campus, and Orville E. Kean Campus**

**Physics - Orville E. Kean Campus**

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## COLLEGE OF SCIENCE AND MATHEMATICS

### ***Computer Science Major***

The Associate of Science degree in computer science is intended to provide a sound foundation in computer science and to develop professional skills in programming and networks. It is also designed to serve as an intermediate step towards acquiring the baccalaureate degree in computer science. Depending upon previous educational background, this associate degree can be completed in two to three years on either the Orville E. Kean Campus or Albert A. Sheen Campus.

In addition to the general education requirements (see pp. 76-77), the following courses are required:

A. Required courses in freshman studies (required for anyone admitted into the program with fewer than 24 credits): Credits

SCI 100	The Natural World: The Caribbean	3
SSC 100*	An Introduction to the Social Sciences: A Caribbean Focus	3
FDS 100	Freshman Development Seminar	1

B. Required computer science courses: Credits

CSC 117	Introduction to Programming I	4
CSC 118	Introduction to Programming II	4
CSC 241	Introduction to Computer Architecture and Digital Systems	4
CSC 242	Data Structures	4
CSC 243	Digital Communications and Networks	4
CSC 245	Databases and Information Retrieval	4

C. Required mathematics courses\*: Credits

MAT 241	Introduction to Calculus I and Analytical Geometry	4
MAT 233	Discrete Mathematics	3

D. One of the following science course sequences is required\*: Credits

BIO 141-142	General Biology I-II	4-4
CHE 151-152	General Chemistry I-II	4-4
CHE 151L-152L	General Chemistry Lab I-II	1-1
PHY 211-212	Introduction to Physics I-II	4-4
PHY 241-242	General Physics I-II	5-5

*\*Partially fulfills the general education requirements.*

E. Required humanities courses: Credits

COM 119	Interpersonal Communication and Leadership Skills	3
ENG 120	English Composition	3
ENG 201	Research and Applied Writing	3

F. Two other courses in the social sciences from:  
anthropology, economics, geography, history, political science, psychology, or sociology

G. Physical education

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Full-time students must enroll for 0.5 credit hour of P.E. for each full-time semester up to 2 credits, or enroll in Personal Life Skills 200.

H. Passing score on the English Proficiency Examination

I. Passing score on the Computer Literacy Examination

## **Physics Major**

The Associate of Science degree program in physics is intended to develop an acute awareness of our physical environment on a conceptual level through rigorous mathematical manipulation of the fundamental laws of physics and through utilization of the techniques of the modern physical scientist. It is also designed to serve as an intermediate step towards acquiring the baccalaureate degree in engineering, physics, or similar science. Depending upon previous educational background, this associate degree can be completed in two to three years.

In addition to the general education requirements (see pp. 76-77), the following courses are required:

A. Required courses in freshman studies (required for anyone admitted into the program with fewer than 24 credits):

		Credits
SCI 100	The Natural World: The Caribbean	3
SSC 100*	An Introduction to the Social Sciences: A Caribbean Focus	3
FDS 100	Freshman Development Seminar	1

*\*Partially fulfills the general education requirements in the social sciences*

B. Required courses in science and mathematics:

		Credits
CHE 151-152	General Chemistry I-II	4-4
CHE 151L-152L	General Chemistry Lab I-II	1-1
or		
BIO 141-142	General Biology I-II	4-4
CSC 117	Introduction to Programming I	4
CSC 333	Programming Languages	
or MAT 261	Linear Algebra	4
MAT 241-242	Introduction to Calculus and Analytical Geometry I-II	4-4
MAT 341-342	Intermediate Calculus I-II	3-3
PHY 241-242	General Physics I-II	5-5
PHY 311	Classical Mechanics	
or PHY 321	Electromagnetism	3
PHY 341	Modern Physics	3
PHY 351	Modern Physics Laboratory	1

*Note: MAT 346: Differential Equations is a recommended elective for students who have space in their programs of study. However, depending on their career plans, students may elect to take engineering drawing, engineering graphics, or other laboratory science courses to broaden their science base.*