



ICT-U CAMEROON, P.O. Box 526 Yaounde, Cameroon

Schools and Programs

DETAILED ICT-U PROGRAMS AND CORRESPONDING CREDIT HOURS

Important note on English as a Second Language (ESL) and International Computer Driving License (ICDL):

English as a Second Language (ESL): The courses detailed in this document are all taught in English. However, students with French or Spanish as their first language will be offered the opportunity to go through a one-semester intensive English as a Second Language (ESL) program to prepare the students for our ICT University courses. This one semester program DOES NOT count towards the student's degree. The details of the ESL program follow the explanation of the ICDL.

International Computer Driving License (ICDL):

The ICDL demonstrates a student's ability to use a computer and its most popular computer applications. Candidates have to pass tests in the following seven modules as the first three (3) credit hour course at ICT-U. The ICDL program is for anyone who wishes to become fully competent in the use of a computer and common applications. Each ICDL module provides a practical program of up-to-date skills and knowledge areas which are validated by a test.

For students to achieve a solid base of skills and knowledge, therefore attaining a minimum level of digital literacy, it is recommended that candidates complete and attain certification in a minimum of four ICDL modules. Students are required to take training on each module prior to taking the test. Each module is tested separately with each test lasting no longer than 45 minutes. For a recommended level of ICT competence to be achieved, a certification of a minimum of seven ICDL modules is appropriate. In order to achieve the ICDL certification, individuals must pass a test for each of the seven modules.

ALL ICT-U students MUST take this course which counts for three (3) credit hours towards their degree. This course will be open to members of the public who just wish to do this as their part of their professional development, without engaging in any of ICT-U's degree programs.



- Module 1 - Concepts of ICT
- Module 2 - Using the Computer and Managing Files
- Module 3 - Word Processing
- Module 4 - Spreadsheets
- Module 5 - Using Databases
- Module 6 - Presentation
- Module 7 - Web Browsing and Communication
- Module 8 - 2D Computer Aided Design
- Module 9 - Image Editing
- Module 10 - Web Editing
- Module 11 - Health Information Systems Usage
- Module 12 - IT Security
- Module 13 - Project Planning

English as a Second Language (ESL) Detailed Program: Organized in five modules

English as a Second Language Module 1

Conversation Skills Are Developed

• Reading and writing are important skills, but we begin the ESL program with emphasis on listening and speaking. The main focus of the program is developing one's ability to use English in everyday personal and workplace situations.

The student will receive a student assignment booklet and CD which are designed to help you learn to speak English. The student needs to follow the directions in the student assignment booklet to understand how and when to use each component of the program.

English as a Second Language Module 2

Literacy in the Workplace

The student will learn the essentials of basic English necessary to survive on the job.

- Completing simple forms and asking for directions
- Identifying places at work
- Following simple instructions for using common machines at work
- Greeting customers, taking their orders and offering assistance
- Understanding good work habits
- Working with money, both at work and at home
- Following safety rules at work
- Reading help wanted ads, and completing a job application

English as a Second Language Module 3



Everyday English

The student will learn the essentials of basic English necessary to survive in any English speaking country

- Introducing and completing an identification form
- Reading maps, following directions and using a payphone
- Calendars, times and dates, store hour signs, and the weather
- The supermarket, reading price tags and expiration dates
- Shopping for clothes, comparison shopping, and writing checks
- Buying or renting a home, asking for simple repairs
- Making doctors' appointments, listening to doctors' instructions
- Reading help wanted ads, completing job applications
- Using public transportation and reading traffic signs

English as a Second Language Module 4

Basic Skills in Reading

The student readings include a variety of sources such as popular literature, classical literature, articles, reviews, and workplace-related materials.

- Fiction - includes many different examples from novels and short stories
- Nonfiction - biographies, autobiographies, essays, magazine articles, reviews
- Poetry and Drama - popular, social, and classical aspects of each are covered
- Prose and Visual Information - brochures and ads, calendars and schedules, forms and documents, manuals and handbooks, drawings and diagrams, charts and graphs

English as a Second Language Module 5

Basic Skills in Writing

Writing is a form of expression and communication. When the student writes well, others can understand what they are saying. The student will learn to use the writing process to their advantage.

- Essay and Creative Writing - the writing process, narrative writing, descriptive writing, expository writing, persuasive writing
- Workplace and Personal Writing - letter writing, job search writing, workplace writing, explanatory writing, report writing
- Grammar Guide - mechanics, usage, sentence structure
- Writing Handbook - models, editing, checklist, proofreading



ACADEMIC MAJOR 2: ASSOCIATE IN COMPUTER SCIENCE ASSOCIATE DEGREE IN COMPUTER SCIENCE

Program Information:

This associate degree program targets a broad range of students interested in careers in Information Technology. It is intended that the degree articulate to Computer Science programs at four year U.S. institutions as well as other institutions worldwide. Specifically, students taking this AS program will be well qualified to transfer from the ICT University Campuses in developing nations to US institutions. This will of course differ from one US institution to another. The program shares curriculum with related courses from Business and Computer Networking to provide graduates with a diverse skill set

Program Goals:

By completing this program, students will achieve the following learning goals:

- 1) Write and implement algorithms using a programming language of their choice to solve any problem;
- 2) Write object-oriented programs;
- 3) implement data structures in writing complex programs;
- 4) Be fluent in two or more programming languages;
- 5) Understand ethical and moral issues as related to Computer Science applications;
- 6) Understand the computer's architecture as it relates to Computer Science, and,
- 7) Have a strong base to become a life-long learner in the field of Computer Science.

Developmental Courses:

Some students may need preparatory courses in the areas of English, mathematics, or typing/keyboarding. Courses numbered below 1000 will not apply toward this degree.

Graduation Requirements:

- A minimum grade of C must be earned in all Program Requirements.
- All Program Requirements must be completed at ICT-U.
- Courses within the 30-credit Program Requirements must be completed within 2 years. Students may petition to extend the window beyond the 2 years.
- A minimum cumulative grade point average (GPA) of 2.5 in courses numbered 1000 or above at ICT-U.
- Students who have transferred to ICT-U must have a minimum GPA of 2.5 in combined ICT-U courses and



accepted transfer courses.

- A minimum of **20 semester credits** applied toward the degree must be taken from ICT-U.
- Completion of specific degree requirements. Total of 60 credits.

Transfer Note:

Students intending to transfer should first check the specific requirements of each US institution they intend to transfer to. The ICT University counselors are available to help students based on their individual circumstances

Program Requirements: 15 credits

- CSCI 1101 Introduction to Computer Science and Problem Solving 3
- CSCI 1106 Fundamentals of Computer Science I 3
- CSCI 1107 Fundamentals of Computer Science II 3
- CSCI 2253 Assembly Language Programming 3
- MATH 2100 Discrete Mathematics 3

Additional Requirements: 11 credits

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Students must select courses from the following to fulfill the 30-credit requirement:

- CSCI 1115 Visual Basic Programming 3
- CSCI 1125 Object-Oriented Programming Using Java 3
- CSCI 1155 Intro to Functional Language Programming 3
- CNET 2101 Data Telecommunications & Computer Networks 3
- ENGR 2218 Digital Logic 3
- MATH 1201 College Algebra II and Trigonometry 3
- MATH 1210 Pre-Calculus 3
- MATH 1400 Calculus I 3
- MATH 1401 Calculus II 3

General Education: 27 credits

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Complete at least 30 credits including all courses listed. You must complete at least one course in six of the ten goal areas. One course may satisfy more than one emphasis area, but the course credits may be counted only once. Students intending to transfer to a 4-year institution should complete all ten emphasis areas.



1. **Communication**

ENGL 1121 3

SPCH 1110* **OR** SPCH 2220 3

**Students may take SPCH 2215 Public Speaking in place of SPCH 1110.*

2. **Critical Thinking**

3. **Natural Science**

4. **Mathematical/Logical Reasoning**

MATH 1200 3

5. **History/Social/Behavioral Sciences**

6. **Humanities/Fine Arts**

7. **Human Diversity**

8. **Global perspective**

9. **Ethical/Civic Responsibility**

10. **People and the Environment**

Program Sequence: The sequence that follows is suggested for full-time students. Part-time students will need more time to complete this program; more courses are offered in the evening.

FIRST YEAR Fall Semester, Spring Semester

CSCI 11014

MATH 1200.....4

ENGL 11214

General Ed or Electives ... 4-5

TOTAL16-17

CSCI 11064

SPCH 1110 or 2220.....3

General Ed or Electives 9-10

TOTAL16-17



SECOND YEAR Fall Semester Spring Semester

CSCI 22534

Elective 3-4

General Ed or Electives..... 8

TOTAL15-16

CSCI 11064

MATH 2100.....4

General Ed/Electives 3-6

TOTAL11-14