

HND Software Engineering

Course Overview & Study Guide

Note: This document is an academic study guide produced by UNEE based on the official HND examination framework. It is not an official government syllabus. For the official syllabus, contact the Ministry of Higher Education, Cameroon.

About HND Software Engineering

Software Engineering is one of the fastest-growing fields in Cameroon and across Africa. Every sector — banking, agriculture, healthcare, government — is going digital, and organisations need skilled engineers to build and maintain those systems.

With an HND in Software Engineering, you graduate with hands-on skills in programming, database design, web development, and networking. These are practical abilities employers in Cameroon can hire you for immediately after graduation.

The Cameroonian tech ecosystem is active and expanding. Cities like Yaounde and Douala have growing developer communities, fintech startups, and IT firms hiring HND graduates.

Course Structure — HND SWE

Credit values are set by the Ministry of Higher Education, Cameroon.

PROFESSIONAL COURSES

Code	Course Title	Credits
SWE113	Digital Electronics	3
SWE114	Introduction to Algorithms	5
SWE115	Introduction to Software Engineering	7
SWE11	System Analysis and Design	7
SWE14	Case Study	12
SWE15	Computer Technology	4
SWE16	Information System	6
SWE17	Practice of Computer	8
SWE18	Discrete Mathematics	4

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SWE19	Digital Electronics (Advanced)	7
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TRANSVERSAL COURSES

Code	Course Title	Credits
ENG101	English Language	1
FRN101	French Language	1
LCE101	Law and Citizenship Education	1
ECE21	Enterprise Creation and Entrepreneurship	1
CMS23	Computer Studies	1

Total Credits: **68**

Career Paths — HND Software Engineering

- Software Developer
- Mobile App Developer
- Systems Analyst
- Network Engineer
- Web Developer
- Database Administrator
- IT Project Manager
- Tech Entrepreneur

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